# APPENDIX J-3

# 2017 ANALYTICAL DATA REPORTS AND DATA VALIDATION REVIEW MEMOS

## August-September 2017

# ANALYTICAL REPORT

August 24, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L929881 |
| Samples Received: | 08/16/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## MW-133-20 L929881-01 Solid

Collected by: K. Springstead | Collected date/time: 08/15/17 10:00 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011911 | 1 | 08/21/17 09:30 | 08/21/17 09:43 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011634 | 1 | 08/15/17 10:00 | 08/20/17 01:10 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 1 | 08/15/17 10:00 | 08/22/17 03:23 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 25 | 08/15/17 10:00 | 08/23/17 03:15 | ACG |

## MW-133-35 L929881-02 Solid

Collected by: K. Springstead | Collected date/time: 08/15/17 10:40 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011913 | 1 | 08/21/17 09:09 | 08/21/17 09:20 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011634 | 1 | 08/15/17 10:40 | 08/20/17 01:32 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 1 | 08/15/17 10:40 | 08/22/17 03:45 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 25 | 08/15/17 10:40 | 08/23/17 03:36 | ACG |

## MW-133-45 L929881-03 Solid

Collected by: K. Springstead | Collected date/time: 08/15/17 11:10 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011913 | 1 | 08/21/17 09:09 | 08/21/17 09:20 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011634 | 1 | 08/15/17 11:10 | 08/20/17 01:54 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 1 | 08/15/17 11:10 | 08/22/17 04:06 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 200 | 08/15/17 11:10 | 08/23/17 03:57 | ACG |

## MW-133-55 L929881-04 Solid

Collected by: K. Springstead | Collected date/time: 08/15/17 11:45 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011913 | 1 | 08/21/17 09:09 | 08/21/17 09:20 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011634 | 50 | 08/15/17 11:45 | 08/22/17 15:26 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 1000 | 08/15/17 11:45 | 08/23/17 04:18 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 10000 | 08/15/17 11:45 | 08/23/17 15:19 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 200 | 08/15/17 11:45 | 08/22/17 04:27 | JAH |

## MW-133-58 L929881-05 Solid

Collected by: K. Springstead | Collected date/time: 08/15/17 12:15 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011913 | 1 | 08/21/17 09:09 | 08/21/17 09:20 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011634 | 500 | 08/15/17 12:15 | 08/22/17 15:49 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 5000 | 08/15/17 12:15 | 08/22/17 04:48 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 5000 | 08/15/17 12:15 | 08/23/17 04:41 | ACG |

## MW-133-65 L929881-06 Solid

Collected by: K. Springstead | Collected date/time: 08/15/17 14:00 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011913 | 1 | 08/21/17 09:09 | 08/21/17 09:20 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011634 | 1 | 08/15/17 14:00 | 08/19/17 19:38 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 1 | 08/15/17 14:00 | 08/22/17 05:08 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 250 | 08/15/17 14:00 | 08/23/17 05:02 | ACG |

## MW-133-80-W L929881-07 GW

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| K. Springstead | 08/15/17 15:15 | 08/16/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011763 | 1 | 08/20/17 22:48 | 08/20/17 22:48 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010972 | 1 | 08/18/17 03:30 | 08/18/17 03:30 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010972 | 200 | 08/22/17 03:34 | 08/22/17 03:34 | LRL |

## MW-133-75 L929881-08 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| K. Springstead | 08/15/17 14:20 | 08/16/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011920 | 1 | 08/21/17 09:22 | 08/21/17 09:45 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011634 | 1 | 08/15/17 14:20 | 08/19/17 20:00 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1011219 | 1 | 08/15/17 14:20 | 08/19/17 01:12 | ACG |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.9 | | 1 | 08/21/2017 09:43 | WG1011911 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.183 | | 0.0400 | 0.118 | 1 | 08/20/2017 01:10 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.7* | | | *77.0-120* | | *08/20/2017 01:10* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0279 | J | 0.0118 | 0.0589 | 1 | 08/22/2017 03:23 | WG1010895 |
| Acrylonitrile | U | | 0.00211 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Benzene | 0.000422 | J | 0.000318 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Bromobenzene | U | | 0.000335 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Bromodichloromethane | U | | 0.000299 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Bromochloromethane | U | | 0.000460 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| Bromoform | U | | 0.000500 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Bromomethane | U | | 0.00158 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| n-Butylbenzene | U | | 0.000304 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| sec-Butylbenzene | U | | 0.000237 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| tert-Butylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Carbon disulfide | 0.00252 | | 0.000260 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Carbon tetrachloride | U | | 0.000387 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Chlorobenzene | U | | 0.000250 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Chlorodibromomethane | U | | 0.000440 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Chloroethane | U | | 0.00111 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| Chloroform | U | | 0.000270 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| Chloromethane | U | | 0.000442 | 0.00295 | 1 | 08/22/2017 03:23 | WG1010895 |
| 2-Chlorotoluene | U | | 0.000355 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 4-Chlorotoluene | U | | 0.000283 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00124 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.000404 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Dibromomethane | U | | 0.000450 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.000359 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.000282 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.000266 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.000840 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.000235 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.000312 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1-Dichloroethene | 0.000487 | J | 0.000357 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| cis-1,2-Dichloroethene | 0.159 | | 0.000277 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| trans-1,2-Dichloroethene | 0.000591 | J | 0.000311 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.000422 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.000374 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.000244 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.000309 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.000315 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.000917 | 0.00295 | 1 | 08/22/2017 03:23 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.000329 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Di-isopropyl ether | U | | 0.000292 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Ethylbenzene | U | | 0.000350 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Hexachloro-1,3-butadiene | U | J0 | 0.000403 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 2-Hexanone | U | | 0.00161 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |
| n-Hexane | 0.00531 | J | 0.000342 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00298 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Isopropylbenzene | U | | 0.000286 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| p-Isopropyltoluene | U | | 0.000240 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 2-Butanone (MEK) | U | | 0.00552 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Methylene Chloride | U | | 0.00118 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00222 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Methyl tert-butyl ether | U | | 0.000250 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Naphthalene | U | | 0.00118 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Styrene | U | | 0.000276 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000311 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000430 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000430 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Tetrachloroethene | 3.62 | | 0.00813 | 0.0295 | 25 | 08/23/2017 03:15 | WG1010895 |
| Toluene | U | | 0.000511 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2,3-Trichlorobenzene | U | J0 | 0.000361 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2,4-Trichlorobenzene | U | J0 | 0.000457 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.000337 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.000326 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Trichloroethene | 0.0688 | | 0.000329 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Trichlorofluoromethane | U | | 0.000450 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.000873 | 0.00295 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.000338 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.000313 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Vinyl chloride | 0.000389 | J | 0.000343 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Xylenes, Total | U | | 0.000823 | 0.00354 | 1 | 08/22/2017 03:23 | WG1010895 |
| *(S) Toluene-d8* | *92.3* | | | *80.0-120* | | *08/23/2017 03:15* | WG1010895 |
| *(S) Toluene-d8* | *93.4* | | | *80.0-120* | | *08/22/2017 03:23* | WG1010895 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/23/2017 03:15* | WG1010895 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *08/22/2017 03:23* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/22/2017 03:23* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/23/2017 03:15* | WG1010895 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.6 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0443 | 0.131 | 1 | 08/20/2017 01:32 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.5* | | | *77.0-120* | | *08/20/2017 01:32* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.169 | | 0.0131 | 0.0653 | 1 | 08/22/2017 03:45 | WG1010895 |
| Acrylonitrile | U | | 0.00234 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Benzene | U | | 0.000353 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Bromobenzene | U | | 0.000371 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Bromodichloromethane | U | | 0.000332 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Bromochloromethane | U | | 0.000509 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| Bromoform | U | | 0.000554 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Bromomethane | U | | 0.00175 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| n-Butylbenzene | U | | 0.000337 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| sec-Butylbenzene | U | | 0.000262 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| tert-Butylbenzene | U | | 0.000269 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Carbon disulfide | 0.000593 | J | 0.000289 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Carbon tetrachloride | U | | 0.000428 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Chlorobenzene | U | | 0.000277 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Chlorodibromomethane | U | | 0.000487 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Chloroethane | U | | 0.00124 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| Chloroform | U | | 0.000299 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| Chloromethane | U | | 0.000490 | 0.00326 | 1 | 08/22/2017 03:45 | WG1010895 |
| 2-Chlorotoluene | U | | 0.000393 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 4-Chlorotoluene | U | | 0.000313 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00137 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.000448 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Dibromomethane | U | | 0.000499 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.000398 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.000312 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.000295 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.000931 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.000260 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.000346 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1-Dichloroethene | U | | 0.000396 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| cis-1,2-Dichloroethene | 0.000361 | J | 0.000307 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| trans-1,2-Dichloroethene | U | | 0.000345 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.000467 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.000414 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.000270 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.000342 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.000349 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.00102 | 0.00326 | 1 | 08/22/2017 03:45 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.000364 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Di-isopropyl ether | U | | 0.000324 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Ethylbenzene | U | | 0.000388 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Hexachloro-1,3-butadiene | U | J0 | 0.000447 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 2-Hexanone | U | | 0.00179 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |
| n-Hexane | U | | 0.000379 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00330 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Isopropylbenzene | U | | 0.000317 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| p-Isopropyltoluene | U | | 0.000266 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 2-Butanone (MEK) | 0.0258 | | 0.00611 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Methylene Chloride | U | | 0.00131 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00245 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Methyl tert-butyl ether | U | | 0.000277 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Naphthalene | U | | 0.00131 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| n-Propylbenzene | U | | 0.000269 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Styrene | U | | 0.000306 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000345 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000477 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000477 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Tetrachloroethene | U | | 0.00901 | 0.0326 | 25 | 08/23/2017 03:36 | WG1010895 |
| Toluene | U | | 0.000567 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2,3-Trichlorobenzene | U | J0 | 0.000400 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2,4-Trichlorobenzene | U | J0 | 0.000507 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.000373 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.000362 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Trichloroethene | 0.000594 | J | 0.000364 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Trichlorofluoromethane | U | | 0.000499 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.000967 | 0.00326 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.000275 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.000375 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.000347 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Vinyl acetate | U | | 0.00312 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Vinyl chloride | U | | 0.000380 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Xylenes, Total | U | | 0.000911 | 0.00392 | 1 | 08/22/2017 03:45 | WG1010895 |
| *(S) Toluene-d8* | *96.1* | | | *80.0-120* | | *08/22/2017 03:45* | WG1010895 |
| *(S) Toluene-d8* | *86.2* | | | *80.0-120* | | *08/23/2017 03:36* | WG1010895 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *08/23/2017 03:36* | WG1010895 |
| *(S) Dibromofluoromethane* | *114* | | | *74.0-131* | | *08/22/2017 03:45* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/23/2017 03:36* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/22/2017 03:45* | WG1010895 |

Sample Narrative:

L929881-02 WG1010895: No low level sodium bisulfite vials remaining. PCE cannot be analyzed at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.0 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 3.59 | | 0.0368 | 0.109 | 1 | 08/20/2017 01:54 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.5* | | | *77.0-120* | | *08/20/2017 01:54* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0142 | J | 0.0109 | 0.0543 | 1 | 08/22/2017 04:06 | WG1010895 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Benzene | U | | 0.000293 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Bromochloromethane | U | | 0.000424 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| Bromoform | U | | 0.000461 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Bromomethane | U | | 0.00146 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| n-Butylbenzene | U | | 0.000280 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| sec-Butylbenzene | U | | 0.000218 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Carbon disulfide | 0.00239 | | 0.000240 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Carbon tetrachloride | U | | 0.000356 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Chlorobenzene | U | | 0.000230 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Chlorodibromomethane | U | | 0.000405 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Chloroethane | U | | 0.00103 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| Chloroform | U | | 0.000249 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| Chloromethane | U | | 0.000408 | 0.00272 | 1 | 08/22/2017 04:06 | WG1010895 |
| 2-Chlorotoluene | U | | 0.000327 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00114 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.000373 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Dibromomethane | U | | 0.000415 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.000775 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1-Dichloroethene | 0.0115 | | 0.000329 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| cis-1,2-Dichloroethene | 13.0 | | 0.0511 | 0.217 | 200 | 08/23/2017 03:57 | WG1010895 |
| trans-1,2-Dichloroethene | 0.00508 | | 0.000287 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.000389 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.000846 | 0.00272 | 1 | 08/22/2017 04:06 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Hexachloro-1,3-butadiene | U | J0 | 0.000372 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |
| n-Hexane | 0.000378 | J | 0.000315 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Isopropylbenzene | U | | 0.000264 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 2-Butanone (MEK) | U | | 0.00509 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Methylene Chloride | U | | 0.00109 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Methyl tert-butyl ether | U | | 0.000230 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Naphthalene | U | | 0.00109 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Styrene | U | | 0.000254 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000397 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000397 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Tetrachloroethene | 5.17 | | 0.0600 | 0.217 | 200 | 08/23/2017 03:57 | WG1010895 |
| Toluene | U | | 0.000472 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2,3-Trichlorobenzene | U | J0 | 0.000333 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2,4-Trichlorobenzene | U | J0 | 0.000422 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.000311 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.000301 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Trichloroethene | 0.0309 | | 0.000303 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Trichlorofluoromethane | U | | 0.000415 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.000805 | 0.00272 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.000229 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.000312 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Vinyl chloride | 0.323 | | 0.0633 | 0.217 | 200 | 08/23/2017 03:57 | WG1010895 |
| Xylenes, Total | U | | 0.000759 | 0.00326 | 1 | 08/22/2017 04:06 | WG1010895 |
| *(S) Toluene-d8* | *95.7* | | | *80.0-120* | | *08/22/2017 04:06* | WG1010895 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/23/2017 03:57* | WG1010895 |
| *(S) Dibromofluoromethane* | *114* | | | *74.0-131* | | *08/22/2017 04:06* | WG1010895 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/23/2017 03:57* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *64.0-132* | | *08/22/2017 04:06* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/23/2017 03:57* | WG1010895 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.8 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 38.9 | | 2.08 | 6.12 | 50 | 08/22/2017 15:26 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.5* | | | *77.0-120* | | *08/22/2017 15:26* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 2.45 | 12.2 | 200 | 08/22/2017 04:27 | WG1010895 |
| Acrylonitrile | U | | 0.438 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |
| Benzene | U | | 0.0661 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Bromobenzene | U | | 0.0695 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Bromodichloromethane | U | | 0.0621 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Bromochloromethane | U | | 0.0954 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| Bromoform | U | | 0.104 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Bromomethane | U | | 0.328 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| n-Butylbenzene | U | | 0.0631 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| sec-Butylbenzene | U | | 0.0492 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| tert-Butylbenzene | U | | 0.0504 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Carbon disulfide | U | | 0.0541 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Carbon tetrachloride | U | | 0.0802 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Chlorobenzene | U | | 0.0519 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Chlorodibromomethane | U | | 0.0912 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Chloroethane | U | | 0.231 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| Chloroform | U | | 0.0560 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| Chloromethane | U | | 0.0917 | 0.612 | 200 | 08/22/2017 04:27 | WG1010895 |
| 2-Chlorotoluene | U | | 0.0736 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 4-Chlorotoluene | U | | 0.0587 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.257 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.0839 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Dibromomethane | U | | 0.0935 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.0746 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.0585 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.0553 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.175 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.0487 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.0648 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1-Dichloroethene | U | | 0.0741 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| cis-1,2-Dichloroethene | 4.09 | | 0.287 | 1.22 | 1000 | 08/23/2017 04:18 | WG1010895 |
| trans-1,2-Dichloroethene | U | | 0.0646 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.0876 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.0775 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.0506 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.0641 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.0653 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.191 | 0.612 | 200 | 08/22/2017 04:27 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.0683 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Di-isopropyl ether | U | | 0.0607 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Ethylbenzene | U | | 0.0727 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Hexachloro-1,3-butadiene | U | J0 | 0.0837 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 2-Hexanone | U | | 0.335 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |
| n-Hexane | U | | 0.0709 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.619 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |
| Isopropylbenzene | U | | 0.0594 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| p-Isopropyltoluene | 0.0804 | J | 0.0499 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 2-Butanone (MEK) | U | | 1.14 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |
| Methylene Chloride | U | | 0.245 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.460 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |
| Methyl tert-butyl ether | 0.0801 | J | 0.0519 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Naphthalene | U | | 0.245 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| n-Propylbenzene | U | | 0.0504 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Styrene | U | | 0.0572 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0646 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0893 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0893 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Tetrachloroethene | 114 | | 3.38 | 12.2 | 10000 | 08/23/2017 15:19 | WG1010895 |
| Toluene | U | | 0.106 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2,3-Trichlorobenzene | U | J0 | 0.0749 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2,4-Trichlorobenzene | U | J0 | 0.0949 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.0700 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.0678 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Trichloroethene | 0.988 | | 0.0683 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Trichlorofluoromethane | U | | 0.0935 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.181 | 0.612 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.0516 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.0702 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.0651 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Vinyl acetate | U | | 0.585 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |
| Vinyl chloride | U | | 0.0712 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Xylenes, Total | U | | 0.171 | 0.734 | 200 | 08/22/2017 04:27 | WG1010895 |
| *(S) Toluene-d8* | *97.9* | | | *80.0-120* | | *08/22/2017 04:27* | WG1010895 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/23/2017 15:19* | WG1010895 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/23/2017 04:18* | WG1010895 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/23/2017 04:18* | WG1010895 |
| *(S) Dibromofluoromethane* | *95.8* | | | *74.0-131* | | *08/23/2017 15:19* | WG1010895 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *08/22/2017 04:27* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *08/23/2017 04:18* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *08/23/2017 15:19* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *08/22/2017 04:27* | WG1010895 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.6 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 387 | | 20.1 | 59.1 | 500 | 08/22/2017 15:49 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.3* | | | *77.0-120* | | *08/22/2017 15:49* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 59.1 | 296 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Acrylonitrile | U | | 10.6 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Benzene | U | | 1.60 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Bromobenzene | U | | 1.68 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Bromodichloromethane | U | | 1.50 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Bromochloromethane | U | | 2.31 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Bromoform | U | | 2.51 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Bromomethane | U | | 7.92 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| n-Butylbenzene | U | | 1.53 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| sec-Butylbenzene | U | | 1.18 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| tert-Butylbenzene | U | | 1.22 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Carbon disulfide | U | | 1.30 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Carbon tetrachloride | U | | 1.94 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Chlorobenzene | U | | 1.25 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Chlorodibromomethane | U | | 2.20 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Chloroethane | U | | 5.59 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Chloroform | U | | 1.35 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Chloromethane | U | | 2.22 | 14.8 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 2-Chlorotoluene | U | | 1.77 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 4-Chlorotoluene | U | | 1.42 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 6.21 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2-Dibromoethane | U | | 2.03 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Dibromomethane | U | | 2.26 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 1.80 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 1.42 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 1.34 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Dichlorodifluoromethane | U | | 4.21 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1-Dichloroethane | U | | 1.18 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2-Dichloroethane | U | | 1.56 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1-Dichloroethene | U | | 1.80 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| cis-1,2-Dichloroethene | U | | 1.40 | 5.91 | 5000 | 08/23/2017 04:41 | WG1010895 |
| trans-1,2-Dichloroethene | U | | 1.56 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2-Dichloropropane | U | | 2.12 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1-Dichloropropene | U | | 1.87 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,3-Dichloropropane | U | | 1.23 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 1.55 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 1.58 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 4.60 | 14.8 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 2,2-Dichloropropane | U | | 1.66 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Di-isopropyl ether | U | | 1.47 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Ethylbenzene | U | | 1.75 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Hexachloro-1,3-butadiene | U | J0 | 2.02 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 2-Hexanone | U | | 8.10 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |
| n-Hexane | U | | 1.71 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 14.9 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Isopropylbenzene | U | | 1.44 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| p-Isopropyltoluene | U | | 1.21 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 2-Butanone (MEK) | U | | 27.7 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Methylene Chloride | U | | 5.91 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 11.1 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Methyl tert-butyl ether | U | | 1.25 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Naphthalene | U | | 5.91 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| n-Propylbenzene | U | | 1.22 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Styrene | U | | 1.38 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 1.56 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 2.15 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 2.15 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Tetrachloroethene | 691 | | 1.63 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Toluene | U | | 2.57 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2,3-Trichlorobenzene | U | J0 | 1.81 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2,4-Trichlorobenzene | U | J0 | 2.29 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 1.69 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 1.63 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Trichloroethene | U | | 1.66 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Trichlorofluoromethane | U | | 2.26 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 4.38 | 14.8 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 1.25 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 1.70 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 1.57 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Vinyl acetate | U | | 14.2 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Vinyl chloride | U | | 1.73 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Xylenes, Total | U | | 4.13 | 17.7 | 5000 | 08/22/2017 04:48 | WG1010895 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/23/2017 04:41* | WG1010895 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/22/2017 04:48* | WG1010895 |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* | | *08/22/2017 04:48* | WG1010895 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/23/2017 04:41* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/22/2017 04:48* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/23/2017 04:41* | WG1010895 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.4 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 7.21 | | 0.0392 | 0.116 | 1 | 08/19/2017 19:38 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.4* | | | *77.0-120* | | *08/19/2017 19:38* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0188 | J | 0.0116 | 0.0579 | 1 | 08/22/2017 05:08 | WG1010895 |
| Acrylonitrile | U | | 0.00207 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Bromobenzene | U | | 0.000329 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Bromochloromethane | U | | 0.000451 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| Bromoform | U | | 0.000491 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Bromomethane | U | | 0.00155 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| tert-Butylbenzene | U | | 0.000238 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Carbon disulfide | 0.00554 | | 0.000256 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Carbon tetrachloride | U | | 0.000380 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Chlorobenzene | U | | 0.000245 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Chlorodibromomethane | U | | 0.000432 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Chloroethane | U | | 0.00109 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| Chloroform | U | | 0.000265 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| Chloromethane | U | | 0.000434 | 0.00289 | 1 | 08/22/2017 05:08 | WG1010895 |
| 2-Chlorotoluene | U | | 0.000348 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00122 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.000397 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Dibromomethane | U | | 0.000442 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.000825 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1-Dichloroethene | 0.00832 | | 0.000351 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| cis-1,2-Dichloroethene | 1.41 | | 0.0681 | 0.289 | 250 | 08/23/2017 05:02 | WG1010895 |
| trans-1,2-Dichloroethene | 0.00123 | | 0.000306 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.000414 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.000367 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.000303 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.000901 | 0.00289 | 1 | 08/22/2017 05:08 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.000323 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Di-isopropyl ether | U | | 0.000287 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Ethylbenzene | U | | 0.000344 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Hexachloro-1,3-butadiene | U | J0 | 0.000396 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |
| n-Hexane | 0.000897 | J | 0.000336 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00293 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Isopropylbenzene | U | | 0.000281 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 2-Butanone (MEK) | U | | 0.00542 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Methylene Chloride | U | | 0.00116 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Methyl tert-butyl ether | U | | 0.000245 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Naphthalene | U | | 0.00116 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| n-Propylbenzene | U | | 0.000238 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000422 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000422 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Tetrachloroethene | 36.0 | | 0.0799 | 0.289 | 250 | 08/23/2017 05:02 | WG1010895 |
| Toluene | U | | 0.000502 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2,3-Trichlorobenzene | U | J0 | 0.000354 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2,4-Trichlorobenzene | U | J0 | 0.000449 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Trichloroethene | 2.96 | | 0.0808 | 0.289 | 250 | 08/23/2017 05:02 | WG1010895 |
| Trichlorofluoromethane | U | | 0.000442 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.000858 | 0.00289 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.000332 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Vinyl chloride | 0.00631 | | 0.000337 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Xylenes, Total | U | | 0.000808 | 0.00347 | 1 | 08/22/2017 05:08 | WG1010895 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *08/23/2017 05:02* | WG1010895 |
| *(S) Toluene-d8* | *93.1* | | | *80.0-120* | | *08/22/2017 05:08* | WG1010895 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *08/22/2017 05:08* | WG1010895 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *08/23/2017 05:02* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *08/22/2017 05:08* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/23/2017 05:02* | WG1010895 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 2990 | | 31.6 | 100 | 1 | 08/20/2017 22:48 | WG1011763 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-122* | | *08/20/2017 22:48* | WG1011763 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 6.79 | J J0 J3 | 1.05 | 25.0 | 1 | 08/18/2017 03:30 | WG1010972 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| Benzene | 0.808 | | 0.0896 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 08/18/2017 03:30 | WG1010972 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Dichlorodifluoromethane | U | J0 | 0.127 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1-Dichloroethane | 0.274 | J | 0.114 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1-Dichloroethene | 37.2 | | 0.188 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| cis-1,2-Dichloroethene | 182 | | 18.7 | 100 | 200 | 08/22/2017 03:34 | WG1010972 |
| trans-1,2-Dichloroethene | 3.00 | | 0.152 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Ethylbenzene | 0.228 | J | 0.158 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| n-Hexane | 1.24 | J | 0.305 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 08/18/2017 03:30 | WG1010972 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 2-Butanone (MEK) | 2.20 | J J0 | 1.28 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Naphthalene | 0.401 | J | 0.174 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Styrene | U | | 0.117 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Tetrachloroethene | 6690 | | 39.8 | 100 | 200 | 08/22/2017 03:34 | WG1010972 |
| Toluene | 774 | | 82.4 | 100 | 200 | 08/22/2017 03:34 | WG1010972 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Trichloroethene | 797 | | 30.6 | 100 | 200 | 08/22/2017 03:34 | WG1010972 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2,4-Trimethylbenzene | 0.151 | J | 0.123 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| Vinyl chloride | 46.2 | | 0.118 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Xylenes, Total | 0.708 | J | 0.316 | 1.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| *(S) Toluene-d8* | *116* | | | *80.0-120* | | *08/18/2017 03:30* | WG1010972 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *08/22/2017 03:34* | WG1010972 |
| *(S) Dibromofluoromethane* | *88.7* | | | *76.0-123* | | *08/22/2017 03:34* | WG1010972 |
| *(S) Dibromofluoromethane* | *98.6* | | | *76.0-123* | | *08/18/2017 03:30* | WG1010972 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *08/22/2017 03:34* | WG1010972 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *80.0-120* | | *08/18/2017 03:30* | WG1010972 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.0 | | 1 | 08/21/2017 09:45 | WG1011920 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0394 | 0.116 | 1 | 08/19/2017 20:00 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* | | *08/19/2017 20:00* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0582 | 1 | 08/19/2017 01:12 | WG1011219 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Benzene | U | | 0.000314 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Bromochloromethane | U | | 0.000454 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| Bromoform | U | | 0.000493 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Bromomethane | U | J0 | 0.00156 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| n-Butylbenzene | U | | 0.000300 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| sec-Butylbenzene | U | | 0.000234 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| tert-Butylbenzene | U | | 0.000240 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Carbon disulfide | 0.000728 | J | 0.000257 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Carbon tetrachloride | U | | 0.000382 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Chlorobenzene | U | | 0.000247 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Chlorodibromomethane | U | | 0.000434 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Chloroethane | U | | 0.00110 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| Chloroform | U | | 0.000266 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| Chloromethane | U | | 0.000436 | 0.00291 | 1 | 08/19/2017 01:12 | WG1011219 |
| 2-Chlorotoluene | U | | 0.000350 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2-Dibromoethane | U | | 0.000399 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Dibromomethane | U | | 0.000444 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2-Dichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,3-Dichlorobenzene | U | | 0.000278 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,4-Dichlorobenzene | U | | 0.000263 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Dichlorodifluoromethane | U | | 0.000829 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1-Dichloroethane | U | | 0.000232 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2-Dichloroethane | U | | 0.000308 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1-Dichloroethene | U | | 0.000352 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| cis-1,2-Dichloroethene | 0.00191 | | 0.000273 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| trans-1,2-Dichloroethene | U | | 0.000307 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1-Dichloropropene | U | | 0.000369 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,3-Dichloropropane | U | | 0.000241 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| cis-1,3-Dichloropropene | U | | 0.000305 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| trans-1,3-Dichloropropene | U | | 0.000311 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| trans-1,4-Dichloro-2-butene | U | | 0.000905 | 0.00291 | 1 | 08/19/2017 01:12 | WG1011219 |
| 2,2-Dichloropropane | U | J0 | 0.000325 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Di-isopropyl ether | U | | 0.000289 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Ethylbenzene | U | | 0.000346 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Hexachloro-1,3-butadiene | U | | 0.000398 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |
| n-Hexane | U | | 0.000337 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Isopropylbenzene | U | | 0.000283 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 2-Butanone (MEK) | U | | 0.00544 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Methylene Chloride | U | | 0.00116 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00219 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Methyl tert-butyl ether | U | | 0.000247 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Naphthalene | U | | 0.00116 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| n-Propylbenzene | U | | 0.000240 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000307 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000425 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1,2-Trichlorotrifluoroethane | U | J0 | 0.000425 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Tetrachloroethene | 0.0468 | J0 J4 | 0.000321 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Toluene | U | | 0.000505 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2,3-Trichlorobenzene | U | | 0.000356 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2,4-Trichlorobenzene | U | | 0.000451 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1,1-Trichloroethane | U | | 0.000333 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Trichloroethene | 0.000647 | J | 0.000325 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Trichlorofluoromethane | U | | 0.000444 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2,3-Trichloropropane | U | | 0.000862 | 0.00291 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2,3-Trimethylbenzene | U | | 0.000334 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Vinyl acetate | U | | 0.00278 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Vinyl chloride | U | | 0.000339 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Xylenes, Total | U | | 0.000812 | 0.00349 | 1 | 08/19/2017 01:12 | WG1011219 |
| *(S) Toluene-d8* | *112* | | | *80.0-120* | | *08/19/2017 01:12* | WG1011219 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *08/19/2017 01:12* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/19/2017 01:12* | WG1011219 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3243178-1 08/21/17 09:43

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000300 | | | |

## L930007-06 Original Sample (OS) • Duplicate (DUP)

(OS) L930007-06 08/21/17 09:43 • (DUP) R3243178-3 08/21/17 09:43

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 81.3 | 82.0 | 1 | 0.889 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3243178-2 08/21/17 09:43

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3243133-1 08/21/17 09:20

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000600 | | | |

## L929881-04 Original Sample (OS) • Duplicate (DUP)

(OS) L929881-04 08/21/17 09:20 • (DUP) R3243133-3 08/21/17 09:20

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 81.8 | 80.8 | 1 | 1.19 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3243133-2 08/21/17 09:20

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3243181-1 08/21/17 09:45

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000300 | | | |

## L929943-12 Original Sample (OS) • Duplicate (DUP)

(OS) L929943-12 08/21/17 09:45 • (DUP) R3243181-3 08/21/17 09:45

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 86.6 | 84.7 | 1 | 2.21 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3243181-2 08/21/17 09:45

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3243091-3 08/19/17 18:20

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.0* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243091-1 08/19/17 17:14 • (LCSD) R3243091-2 08/19/17 17:36

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | 6.04 | 6.28 | 110 | 114 | 70.0-133 | | | 3.88 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *105* | *106* | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3243205-3 08/20/17 14:41

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.1* | | | *77.0-122* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243205-1 08/20/17 13:17 • (LCSD) R3243205-2 08/20/17 13:39

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 5950 | 6040 | 108 | 110 | 72.0-134 | | | 1.57 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *105* | *106* | *77.0-122* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3243220-3 08/22/17 00:55

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3243220-3 08/22/17 00:55

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243220-1 08/21/17 23:10 • (LCSD) R3243220-2 08/21/17 23:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.147 | 0.158 | 117 | 126 | 11.0-160 | | | 7.22 | 23 |
| Acrylonitrile | 0.125 | 0.148 | 0.160 | 118 | 128 | 61.0-143 | | | 8.08 | 20 |
| Benzene | 0.0250 | 0.0273 | 0.0275 | 109 | 110 | 71.0-124 | | | 0.860 | 20 |
| Bromobenzene | 0.0250 | 0.0280 | 0.0290 | 112 | 116 | 78.0-120 | | | 3.27 | 20 |
| Bromodichloromethane | 0.0250 | 0.0266 | 0.0267 | 106 | 107 | 75.0-120 | | | 0.430 | 20 |
| Bromochloromethane | 0.0250 | 0.0272 | 0.0274 | 109 | 110 | 80.0-121 | | | 0.550 | 20 |
| Bromoform | 0.0250 | 0.0290 | 0.0316 | 116 | 126 | 65.0-133 | | | 8.35 | 20 |
| Bromomethane | 0.0250 | 0.0253 | 0.0257 | 101 | 103 | 26.0-160 | | | 1.32 | 20 |
| n-Butylbenzene | 0.0250 | 0.0226 | 0.0234 | 90.3 | 93.8 | 73.0-126 | | | 3.72 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0255 | 0.0263 | 102 | 105 | 75.0-121 | | | 3.25 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0260 | 0.0270 | 104 | 108 | 74.0-122 | | | 3.77 | 20 |
| Carbon disulfide | 0.0250 | 0.0290 | 0.0294 | 116 | 117 | 53.0-130 | | | 1.41 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0261 | 0.0264 | 104 | 106 | 66.0-123 | | | 1.37 | 20 |
| Chlorobenzene | 0.0250 | 0.0245 | 0.0251 | 98.0 | 100 | 79.0-121 | | | 2.25 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0255 | 0.0277 | 102 | 111 | 74.0-128 | | | 8.30 | 20 |
| Chloroethane | 0.0250 | 0.0266 | 0.0272 | 106 | 109 | 51.0-147 | | | 2.18 | 20 |
| Chloroform | 0.0250 | 0.0273 | 0.0273 | 109 | 109 | 73.0-123 | | | 0.0700 | 20 |
| Chloromethane | 0.0250 | 0.0261 | 0.0265 | 104 | 106 | 51.0-138 | | | 1.53 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0270 | 0.0282 | 108 | 113 | 72.0-124 | | | 4.65 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0267 | 0.0277 | 107 | 111 | 78.0-120 | | | 3.60 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0220 | 0.0273 | 87.9 | 109 | 65.0-126 | | J3 | 21.6 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0246 | 0.0263 | 98.4 | 105 | 78.0-122 | | | 6.56 | 20 |
| Dibromomethane | 0.0250 | 0.0263 | 0.0270 | 105 | 108 | 79.0-120 | | | 2.82 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0248 | 0.0255 | 99.4 | 102 | 80.0-120 | | | 2.71 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0235 | 0.0238 | 93.8 | 95.0 | 72.0-123 | | | 1.28 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0233 | 0.0234 | 93.1 | 93.6 | 77.0-120 | | | 0.620 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0259 | 0.0269 | 104 | 108 | 68.0-126 | | | 3.68 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0233 | 0.0236 | 93.1 | 94.4 | 49.0-155 | | | 1.36 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0288 | 0.0287 | 115 | 115 | 70.0-128 | | | 0.0900 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0286 | 0.0291 | 114 | 117 | 69.0-128 | | | 1.85 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0251 | 0.0258 | 100 | 103 | 63.0-131 | | | 2.56 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0276 | 0.0279 | 110 | 111 | 74.0-123 | | | 0.980 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0266 | 0.0266 | 107 | 107 | 72.0-122 | | | 0.0100 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0277 | 0.0280 | 111 | 112 | 75.0-126 | | | 1.13 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0288 | 0.0291 | 115 | 117 | 72.0-130 | | | 1.27 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0246 | 0.0273 | 98.3 | 109 | 80.0-121 | | | 10.5 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0274 | 0.0284 | 109 | 114 | 80.0-125 | | | 3.90 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0260 | 0.0271 | 104 | 108 | 75.0-129 | | | 4.11 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0260 | 0.0262 | 104 | 105 | 60.0-129 | | | 0.970 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0290 | 0.0297 | 116 | 119 | 62.0-133 | | | 2.35 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243220-1 08/21/17 23:10 • (LCSD) R3243220-2 08/21/17 23:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0240 | 0.0240 | 95.8 | 96.2 | 77.0-120 | | | 0.360 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0210 | 0.0222 | 83.9 | 88.7 | 68.0-128 | | | 5.53 | 20 |
| 2-Hexanone | 0.125 | 0.121 | 0.140 | 96.8 | 112 | 61.0-143 | | | 14.8 | 20 |
| n-Hexane | 0.0250 | 0.0267 | 0.0270 | 107 | 108 | 57.0-125 | | | 0.980 | 20 |
| Iodomethane | 0.125 | 0.139 | 0.140 | 112 | 112 | 67.0-132 | | | 0.530 | 20 |
| Isopropylbenzene | 0.0250 | 0.0267 | 0.0278 | 107 | 111 | 75.0-120 | | | 4.27 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0249 | 0.0257 | 99.6 | 103 | 74.0-125 | | | 2.98 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.113 | 0.123 | 90.1 | 98.7 | 37.0-159 | | | 9.11 | 20 |
| Methylene Chloride | 0.0250 | 0.0225 | 0.0228 | 89.9 | 91.0 | 67.0-123 | | | 1.25 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.124 | 0.140 | 99.0 | 112 | 60.0-144 | | | 12.5 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0268 | 0.0280 | 107 | 112 | 66.0-125 | | | 4.46 | 20 |
| Naphthalene | 0.0250 | 0.0204 | 0.0232 | 81.7 | 92.6 | 64.0-125 | | | 12.5 | 20 |
| n-Propylbenzene | 0.0250 | 0.0269 | 0.0278 | 108 | 111 | 78.0-120 | | | 3.19 | 20 |
| Styrene | 0.0250 | 0.0282 | 0.0292 | 113 | 117 | 78.0-124 | | | 3.58 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0242 | 0.0244 | 96.6 | 97.7 | 74.0-124 | | | 1.17 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0264 | 0.0292 | 106 | 117 | 73.0-120 | | | 10.1 | 20 |
| Tetrachloroethene | 0.0250 | 0.0230 | 0.0238 | 91.8 | 95.1 | 70.0-127 | | | 3.53 | 20 |
| Toluene | 0.0250 | 0.0234 | 0.0243 | 93.4 | 97.1 | 77.0-120 | | | 3.85 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0273 | 0.0271 | 109 | 108 | 64.0-135 | | | 0.980 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0197 | 0.0213 | 78.8 | 85.4 | 68.0-126 | | | 8.00 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0196 | 0.0203 | 78.4 | 81.4 | 70.0-127 | | | 3.71 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0275 | 0.0276 | 110 | 110 | 69.0-125 | | | 0.410 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0235 | 0.0251 | 93.8 | 100 | 78.0-120 | | | 6.70 | 20 |
| Trichloroethene | 0.0250 | 0.0256 | 0.0265 | 102 | 106 | 79.0-120 | | | 3.60 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0249 | 0.0260 | 99.5 | 104 | 59.0-136 | | | 4.34 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0253 | 0.0281 | 101 | 112 | 73.0-124 | | | 10.3 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0249 | 0.0256 | 99.7 | 102 | 76.0-120 | | | 2.55 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0250 | 0.0262 | 99.9 | 105 | 75.0-120 | | | 4.62 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0251 | 0.0264 | 101 | 106 | 75.0-120 | | | 4.84 | 20 |
| Vinyl acetate | 0.125 | 0.138 | 0.141 | 111 | 113 | 58.0-156 | | | 1.94 | 20 |
| Vinyl chloride | 0.0250 | 0.0265 | 0.0269 | 106 | 108 | 63.0-134 | | | 1.36 | 20 |
| Xylenes, Total | 0.0750 | 0.0700 | 0.0720 | 93.3 | 96.0 | 77.0-120 | | | 2.82 | 20 |
| *(S) Toluene-d8* | | | | *103* | *105* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *111* | *109* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *105* | *111* | *64.0-132* | | | | |

## L929784-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L929784-07 08/22/17 02:20 • (MS) R3243220-4 08/22/17 10:05 • (MSD) R3243220-5 08/22/17 10:26

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.147 | ND | 6.27 | 6.73 | 171 | 184 | 25 | 10.0-160 | J5 | J5 | 7.09 | 36 |
| Acrylonitrile | 0.147 | ND | 4.07 | 4.08 | 111 | 111 | 25 | 14.0-160 | | | 0.130 | 33 |
| Benzene | 0.0293 | ND | 0.765 | 0.773 | 104 | 105 | 25 | 13.0-146 | | | 1.00 | 27 |
| Bromobenzene | 0.0293 | ND | 0.784 | 0.827 | 107 | 113 | 25 | 10.0-149 | | | 5.33 | 33 |
| Bromodichloromethane | 0.0293 | ND | 0.763 | 0.768 | 104 | 105 | 25 | 15.0-142 | | | 0.630 | 28 |
| Bromochloromethane | 0.0293 | ND | 0.745 | 0.750 | 102 | 102 | 25 | 24.0-146 | | | 0.760 | 27 |
| Bromoform | 0.0293 | ND | 0.776 | 0.813 | 106 | 111 | 25 | 10.0-147 | | | 4.58 | 31 |
| Bromomethane | 0.0293 | ND | 0.868 | 0.873 | 118 | 119 | 25 | 10.0-160 | | | 0.640 | 32 |
| n-Butylbenzene | 0.0293 | ND | 0.763 | 0.851 | 100 | 112 | 25 | 10.0-154 | | | 11.0 | 37 |
| sec-Butylbenzene | 0.0293 | ND | 0.768 | 0.818 | 104 | 110 | 25 | 10.0-151 | | | 6.32 | 36 |
| tert-Butylbenzene | 0.0293 | ND | 0.758 | 0.800 | 103 | 109 | 25 | 10.0-152 | | | 5.38 | 35 |
| Carbon disulfide | 0.0293 | ND | 0.622 | 0.614 | 84.9 | 83.8 | 25 | 10.0-141 | | | 1.30 | 30 |
| Carbon tetrachloride | 0.0293 | ND | 0.719 | 0.726 | 98.1 | 99.0 | 25 | 13.0-140 | | | 1.00 | 30 |
| Chlorobenzene | 0.0293 | ND | 0.684 | 0.695 | 93.3 | 94.9 | 25 | 10.0-149 | | | 1.65 | 31 |
| Chlorodibromomethane | 0.0293 | ND | 0.692 | 0.718 | 94.5 | 98.0 | 25 | 12.0-147 | | | 3.63 | 29 |
| Chloroethane | 0.0293 | ND | 0.683 | 0.657 | 93.3 | 89.6 | 25 | 10.0-159 | | | 3.94 | 33 |
| Chloroform | 0.0293 | ND | 0.765 | 0.767 | 104 | 105 | 25 | 18.0-148 | | | 0.290 | 28 |
| Chloromethane | 0.0293 | ND | 0.670 | 0.652 | 91.5 | 88.9 | 25 | 10.0-146 | | | 2.82 | 29 |
| 2-Chlorotoluene | 0.0293 | ND | 0.778 | 0.825 | 106 | 113 | 25 | 10.0-151 | | | 5.85 | 35 |
| 4-Chlorotoluene | 0.0293 | ND | 0.766 | 0.809 | 104 | 110 | 25 | 10.0-150 | | | 5.51 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0293 | ND | 0.730 | 0.753 | 99.6 | 103 | 25 | 10.0-149 | | | 3.09 | 34 |
| 1,2-Dibromoethane | 0.0293 | ND | 0.678 | 0.684 | 92.6 | 93.3 | 25 | 14.0-145 | | | 0.770 | 28 |
| Dibromomethane | 0.0293 | ND | 0.728 | 0.736 | 99.4 | 100 | 25 | 18.0-144 | | | 1.04 | 27 |
| 1,2-Dichlorobenzene | 0.0293 | ND | 0.752 | 0.794 | 103 | 108 | 25 | 10.0-153 | | | 5.45 | 34 |
| 1,3-Dichlorobenzene | 0.0293 | ND | 0.719 | 0.762 | 98.1 | 104 | 25 | 10.0-150 | | | 5.83 | 35 |
| 1,4-Dichlorobenzene | 0.0293 | ND | 0.709 | 0.766 | 96.8 | 105 | 25 | 10.0-148 | | | 7.71 | 34 |
| trans-1,4-Dichloro-2-butene | 0.0293 | ND | 0.822 | 0.905 | 112 | 123 | 25 | 10.0-160 | | | 9.68 | 40 |
| Dichlorodifluoromethane | 0.0293 | ND | 0.591 | 0.600 | 80.6 | 81.9 | 25 | 10.0-160 | | | 1.61 | 30 |
| 1,1-Dichloroethane | 0.0293 | ND | 0.803 | 0.795 | 110 | 108 | 25 | 19.0-148 | | | 1.07 | 28 |
| 1,2-Dichloroethane | 0.0293 | ND | 0.789 | 0.803 | 108 | 110 | 25 | 17.0-147 | | | 1.83 | 27 |
| 1,1-Dichloroethene | 0.0293 | ND | 0.670 | 0.662 | 91.5 | 90.3 | 25 | 10.0-150 | | | 1.30 | 31 |
| cis-1,2-Dichloroethene | 0.0293 | ND | 0.765 | 0.747 | 104 | 102 | 25 | 16.0-145 | | | 2.43 | 28 |
| trans-1,2-Dichloroethene | 0.0293 | ND | 0.691 | 0.690 | 94.3 | 94.2 | 25 | 11.0-142 | | | 0.120 | 29 |
| 1,2-Dichloropropane | 0.0293 | ND | 0.791 | 0.804 | 108 | 110 | 25 | 17.0-148 | | | 1.63 | 28 |
| 1,1-Dichloropropene | 0.0293 | ND | 0.751 | 0.748 | 103 | 102 | 25 | 10.0-150 | | | 0.430 | 30 |
| 1,3-Dichloropropane | 0.0293 | ND | 0.698 | 0.717 | 95.2 | 97.8 | 25 | 16.0-148 | | | 2.62 | 27 |
| cis-1,3-Dichloropropene | 0.0293 | ND | 0.707 | 0.726 | 96.4 | 99.1 | 25 | 13.0-150 | | | 2.73 | 28 |
| trans-1,3-Dichloropropene | 0.0293 | ND | 0.709 | 0.724 | 96.7 | 98.8 | 25 | 10.0-152 | | | 2.14 | 29 |
| 2,2-Dichloropropane | 0.0293 | ND | 0.682 | 0.665 | 93.0 | 90.8 | 25 | 16.0-143 | | | 2.42 | 30 |

## L929784-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L929784-07 08/22/17 02:20 • (MS) R3243220-4 08/22/17 10:05 • (MSD) R3243220-5 08/22/17 10:26

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Di-isopropyl ether | 0.0293 | ND | 0.862 | 0.856 | 118 | 117 | 25 | 16.0-149 | | | 0.700 | 28 |
| Ethylbenzene | 0.0293 | ND | 0.688 | 0.700 | 90.6 | 92.2 | 25 | 10.0-147 | | | 1.67 | 31 |
| Hexachloro-1,3-butadiene | 0.0293 | ND | 0.734 | 0.778 | 100 | 106 | 25 | 10.0-154 | | | 5.73 | 40 |
| 2-Hexanone | 0.147 | ND | 3.86 | 4.02 | 105 | 110 | 25 | 12.0-158 | | | 4.10 | 30 |
| n-Hexane | 0.0293 | ND | 0.680 | 0.689 | 89.4 | 90.6 | 25 | 10.0-140 | | | 1.34 | 34 |
| Iodomethane | 0.147 | ND | 3.43 | 3.39 | 93.7 | 92.5 | 25 | 10.0-157 | | | 1.21 | 34 |
| Isopropylbenzene | 0.0293 | ND | 0.768 | 0.819 | 104 | 111 | 25 | 10.0-147 | | | 6.43 | 33 |
| p-Isopropyltoluene | 0.0293 | ND | 0.757 | 0.821 | 102 | 111 | 25 | 10.0-156 | | | 8.06 | 37 |
| 2-Butanone (MEK) | 0.147 | ND | 4.04 | 4.18 | 110 | 114 | 25 | 10.0-160 | | | 3.40 | 33 |
| Methylene Chloride | 0.0293 | ND | 0.587 | 0.571 | 80.1 | 77.9 | 25 | 16.0-139 | | | 2.72 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.147 | ND | 3.60 | 3.61 | 98.2 | 98.4 | 25 | 12.0-160 | | | 0.290 | 32 |
| Methyl tert-butyl ether | 0.0293 | 0.0458 | 0.806 | 0.792 | 104 | 102 | 25 | 21.0-145 | | | 1.69 | 29 |
| Naphthalene | 0.0293 | ND | 0.827 | 0.884 | 99.3 | 107 | 25 | 10.0-153 | | | 6.67 | 36 |
| n-Propylbenzene | 0.0293 | 0.0414 | 0.816 | 0.871 | 106 | 113 | 25 | 10.0-151 | | | 6.49 | 34 |
| Styrene | 0.0293 | ND | 0.757 | 0.789 | 103 | 108 | 25 | 10.0-155 | | | 4.08 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0293 | ND | 0.698 | 0.680 | 95.2 | 92.8 | 25 | 10.0-147 | | | 2.55 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0293 | ND | 0.751 | 0.783 | 103 | 107 | 25 | 10.0-155 | | | 4.08 | 31 |
| Tetrachloroethene | 0.0293 | ND | 0.635 | 0.649 | 86.6 | 88.6 | 25 | 10.0-144 | | | 2.33 | 32 |
| Toluene | 0.0293 | ND | 0.655 | 0.674 | 89.4 | 92.0 | 25 | 10.0-144 | | | 2.82 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0293 | ND | 0.722 | 0.737 | 98.5 | 101 | 25 | 10.0-153 | | | 2.06 | 33 |
| 1,2,3-Trichlorobenzene | 0.0293 | ND | 0.740 | 0.791 | 101 | 108 | 25 | 10.0-153 | | | 6.67 | 40 |
| 1,2,4-Trichlorobenzene | 0.0293 | ND | 0.702 | 0.794 | 95.7 | 108 | 25 | 10.0-156 | | | 12.4 | 40 |
| 1,1,1-Trichloroethane | 0.0293 | ND | 0.766 | 0.761 | 105 | 104 | 25 | 18.0-145 | | | 0.730 | 29 |
| 1,1,2-Trichloroethane | 0.0293 | ND | 0.674 | 0.685 | 91.9 | 93.4 | 25 | 12.0-151 | | | 1.65 | 28 |
| Trichloroethene | 0.0293 | ND | 0.695 | 0.710 | 94.8 | 96.9 | 25 | 11.0-148 | | | 2.14 | 29 |
| Trichlorofluoromethane | 0.0293 | ND | 0.825 | 0.809 | 113 | 110 | 25 | 10.0-157 | | | 2.03 | 34 |
| 1,2,3-Trichloropropane | 0.0293 | ND | 0.719 | 0.716 | 98.2 | 97.7 | 25 | 10.0-154 | | | 0.460 | 32 |
| 1,2,3-Trimethylbenzene | 0.0293 | 0.121 | 0.865 | 0.918 | 102 | 109 | 25 | 10.0-150 | | | 5.99 | 33 |
| 1,2,4-Trimethylbenzene | 0.0293 | 0.411 | 1.11 | 1.21 | 95.1 | 110 | 25 | 10.0-151 | | | 9.13 | 34 |
| 1,3,5-Trimethylbenzene | 0.0293 | 0.0792 | 0.819 | 0.879 | 101 | 109 | 25 | 10.0-150 | | | 7.10 | 33 |
| Vinyl acetate | 0.147 | ND | 3.77 | 3.55 | 103 | 96.8 | 25 | 10.0-160 | | | 6.10 | 40 |
| Vinyl chloride | 0.0293 | ND | 0.662 | 0.671 | 90.3 | 91.5 | 25 | 10.0-150 | | | 1.30 | 29 |
| Xylenes, Total | 0.0879 | ND | 2.19 | 2.23 | 99.6 | 101 | 25 | 10.0-150 | | | 1.75 | 31 |
| *(S) Toluene-d8* | | | | | *99.7* | *101* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *108* | *104* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *103* | *104* | | *64.0-132* | | | | |

**Sample Narrative:**

OS: Target compounds too high to run at a lower dilution.

## Method Blank (MB)

(MB) R3242760-3 08/19/17 00:33

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3242760-3 08/19/17 00:33

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *117* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3242760-1 08/18/17 23:33 • (LCSD) R3242760-2 08/18/17 23:53

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.110 | 0.105 | 88.4 | 83.7 | 11.0-160 | | | 5.38 | 23 |
| Acrylonitrile | 0.125 | 0.105 | 0.0988 | 84.3 | 79.0 | 61.0-143 | | | 6.41 | 20 |
| Benzene | 0.0250 | 0.0245 | 0.0236 | 98.0 | 94.3 | 71.0-124 | | | 3.88 | 20 |
| Bromobenzene | 0.0250 | 0.0268 | 0.0251 | 107 | 100 | 78.0-120 | | | 6.77 | 20 |
| Bromodichloromethane | 0.0250 | 0.0255 | 0.0242 | 102 | 97.0 | 75.0-120 | | | 5.10 | 20 |
| Bromochloromethane | 0.0250 | 0.0280 | 0.0272 | 112 | 109 | 80.0-121 | | | 2.95 | 20 |
| Bromoform | 0.0250 | 0.0282 | 0.0260 | 113 | 104 | 65.0-133 | | | 8.14 | 20 |
| Bromomethane | 0.0250 | 0.0194 | 0.0192 | 77.7 | 76.8 | 26.0-160 | | | 1.21 | 20 |
| n-Butylbenzene | 0.0250 | 0.0264 | 0.0250 | 106 | 100 | 73.0-126 | | | 5.38 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0278 | 0.0265 | 111 | 106 | 75.0-121 | | | 4.74 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0277 | 0.0258 | 111 | 103 | 74.0-122 | | | 7.31 | 20 |
| Carbon disulfide | 0.0250 | 0.0235 | 0.0229 | 94.0 | 91.5 | 53.0-130 | | | 2.68 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0220 | 0.0214 | 88.0 | 85.7 | 66.0-123 | | | 2.55 | 20 |
| Chlorobenzene | 0.0250 | 0.0289 | 0.0277 | 116 | 111 | 79.0-121 | | | 4.30 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0277 | 0.0259 | 111 | 104 | 74.0-128 | | | 6.76 | 20 |
| Chloroethane | 0.0250 | 0.0217 | 0.0205 | 86.8 | 82.2 | 51.0-147 | | | 5.44 | 20 |
| Chloroform | 0.0250 | 0.0245 | 0.0237 | 98.1 | 94.6 | 73.0-123 | | | 3.62 | 20 |
| Chloromethane | 0.0250 | 0.0225 | 0.0218 | 89.8 | 87.1 | 51.0-138 | | | 3.03 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0272 | 0.0257 | 109 | 103 | 72.0-124 | | | 5.84 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0271 | 0.0253 | 108 | 101 | 78.0-120 | | | 6.87 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0243 | 0.0221 | 97.3 | 88.4 | 65.0-126 | | | 9.62 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0298 | 0.0286 | 119 | 114 | 78.0-122 | | | 4.26 | 20 |
| Dibromomethane | 0.0250 | 0.0237 | 0.0227 | 94.9 | 90.8 | 79.0-120 | | | 4.44 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0266 | 0.0249 | 107 | 99.5 | 80.0-120 | | | 6.84 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0277 | 0.0258 | 111 | 103 | 72.0-123 | | | 6.97 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0278 | 0.0262 | 111 | 105 | 77.0-120 | | | 6.16 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0209 | 0.0196 | 83.7 | 78.4 | 68.0-126 | | | 6.54 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0215 | 0.0214 | 86.1 | 85.8 | 49.0-155 | | | 0.360 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0253 | 0.0245 | 101 | 97.9 | 70.0-128 | | | 3.24 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0232 | 0.0220 | 92.7 | 87.8 | 69.0-128 | | | 5.39 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0226 | 0.0212 | 90.5 | 84.9 | 63.0-131 | | | 6.42 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0260 | 0.0252 | 104 | 101 | 74.0-123 | | | 3.14 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0276 | 0.0261 | 111 | 104 | 72.0-122 | | | 5.71 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0250 | 0.0241 | 99.9 | 96.3 | 75.0-126 | | | 3.62 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0242 | 0.0237 | 97.0 | 94.7 | 72.0-130 | | | 2.39 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0278 | 0.0266 | 111 | 106 | 80.0-121 | | | 4.37 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0284 | 0.0273 | 114 | 109 | 80.0-125 | | | 4.05 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0279 | 0.0267 | 111 | 107 | 75.0-129 | | | 4.13 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0187 | 0.0191 | 74.9 | 76.4 | 60.0-129 | | | 1.94 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0231 | 0.0221 | 92.3 | 88.6 | 62.0-133 | | | 4.09 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3242760-1 08/18/17 23:33 • (LCSD) R3242760-2 08/18/17 23:53

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0289 | 0.0283 | 115 | 113 | 77.0-120 | | | 1.99 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0284 | 0.0281 | 114 | 112 | 68.0-128 | | | 1.08 | 20 |
| 2-Hexanone | 0.125 | 0.127 | 0.121 | 102 | 97.1 | 61.0-143 | | | 4.47 | 20 |
| n-Hexane | 0.0250 | 0.0234 | 0.0232 | 93.7 | 93.0 | 57.0-125 | | | 0.810 | 20 |
| Iodomethane | 0.125 | 0.119 | 0.116 | 95.2 | 92.5 | 67.0-132 | | | 2.89 | 20 |
| Isopropylbenzene | 0.0250 | 0.0276 | 0.0254 | 110 | 102 | 75.0-120 | | | 8.05 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0285 | 0.0266 | 114 | 106 | 74.0-125 | | | 7.02 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.111 | 0.106 | 88.5 | 84.4 | 37.0-159 | | | 4.71 | 20 |
| Methylene Chloride | 0.0250 | 0.0246 | 0.0236 | 98.5 | 94.5 | 67.0-123 | | | 4.16 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.110 | 0.105 | 88.2 | 83.7 | 60.0-144 | | | 5.32 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0196 | 0.0197 | 78.5 | 78.6 | 66.0-125 | | | 0.220 | 20 |
| Naphthalene | 0.0250 | 0.0240 | 0.0233 | 96.1 | 93.1 | 64.0-125 | | | 3.12 | 20 |
| n-Propylbenzene | 0.0250 | 0.0278 | 0.0256 | 111 | 102 | 78.0-120 | | | 8.25 | 20 |
| Styrene | 0.0250 | 0.0273 | 0.0244 | 109 | 97.5 | 78.0-124 | | | 11.2 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0265 | 0.0260 | 106 | 104 | 74.0-124 | | | 1.96 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0245 | 0.0220 | 97.8 | 88.0 | 73.0-120 | | | 10.6 | 20 |
| Tetrachloroethene | 0.0250 | 0.0320 | 0.0313 | 128 | 125 | 70.0-127 | J4 | | 2.39 | 20 |
| Toluene | 0.0250 | 0.0276 | 0.0271 | 110 | 108 | 77.0-120 | | | 1.95 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0208 | 0.0203 | 83.3 | 81.0 | 64.0-135 | | | 2.73 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0280 | 0.0268 | 112 | 107 | 68.0-126 | | | 4.33 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0268 | 0.0257 | 107 | 103 | 70.0-127 | | | 4.02 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0233 | 0.0221 | 93.3 | 88.4 | 69.0-125 | | | 5.36 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0272 | 0.0260 | 109 | 104 | 78.0-120 | | | 4.42 | 20 |
| Trichloroethene | 0.0250 | 0.0266 | 0.0258 | 106 | 103 | 79.0-120 | | | 2.87 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0215 | 0.0211 | 86.1 | 84.6 | 59.0-136 | | | 1.79 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0243 | 0.0223 | 97.2 | 89.0 | 73.0-124 | | | 8.75 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0256 | 0.0244 | 102 | 97.7 | 76.0-120 | | | 4.74 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0264 | 0.0248 | 106 | 99.2 | 75.0-120 | | | 6.34 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0275 | 0.0260 | 110 | 104 | 75.0-120 | | | 5.78 | 20 |
| Vinyl acetate | 0.125 | 0.118 | 0.109 | 94.2 | 87.3 | 58.0-156 | | | 7.55 | 20 |
| Vinyl chloride | 0.0250 | 0.0227 | 0.0219 | 90.9 | 87.4 | 63.0-134 | | | 3.90 | 20 |
| Xylenes, Total | 0.0750 | 0.0868 | 0.0837 | 116 | 112 | 77.0-120 | | | 3.64 | 20 |
| *(S) Toluene-d8* | | | | *116* | *117* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *102* | *99.7* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *105* | *102* | *64.0-132* | | | | |

## L930246-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L930246-01 08/19/17 05:48 • (MS) R3242760-4 08/19/17 07:46 • (MSD) R3242760-5 08/19/17 08:06

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | ND | 1.88 | 2.09 | 60.0 | 67.0 | 25 | 10.0-160 | | | 10.9 | 36 |
| Acrylonitrile | 0.125 | ND | 2.32 | 2.18 | 74.1 | 69.9 | 25 | 14.0-160 | | | 5.86 | 33 |
| Benzene | 0.0250 | ND | 0.508 | 0.488 | 81.3 | 78.0 | 25 | 13.0-146 | | | 4.15 | 27 |
| Bromobenzene | 0.0250 | ND | 0.533 | 0.517 | 85.3 | 82.8 | 25 | 10.0-149 | | | 2.99 | 33 |
| Bromodichloromethane | 0.0250 | ND | 0.522 | 0.509 | 83.5 | 81.4 | 25 | 15.0-142 | | | 2.63 | 28 |
| Bromochloromethane | 0.0250 | ND | 0.580 | 0.546 | 92.8 | 87.4 | 25 | 24.0-146 | | | 5.98 | 27 |
| Bromoform | 0.0250 | ND | 0.579 | 0.579 | 92.6 | 92.6 | 25 | 10.0-147 | | | 0.000 | 31 |
| Bromomethane | 0.0250 | ND | 0.270 | 0.244 | 43.2 | 39.0 | 25 | 10.0-160 | | | 10.2 | 32 |
| n-Butylbenzene | 0.0250 | 0.0986 | 0.606 | 0.623 | 81.2 | 83.9 | 25 | 10.0-154 | | | 2.72 | 37 |
| sec-Butylbenzene | 0.0250 | 0.0744 | 0.630 | 0.644 | 88.9 | 91.2 | 25 | 10.0-151 | | | 2.25 | 36 |
| tert-Butylbenzene | 0.0250 | ND | 0.599 | 0.597 | 92.8 | 92.5 | 25 | 10.0-152 | | | 0.350 | 35 |
| Carbon disulfide | 0.0250 | ND | 0.472 | 0.450 | 75.5 | 72.1 | 25 | 10.0-141 | | | 4.62 | 30 |
| Carbon tetrachloride | 0.0250 | ND | 0.437 | 0.424 | 70.0 | 67.9 | 25 | 13.0-140 | | | 3.07 | 30 |
| Chlorobenzene | 0.0250 | 0.0365 | 0.592 | 0.537 | 88.9 | 80.1 | 25 | 10.0-149 | | | 9.84 | 31 |
| Chlorodibromomethane | 0.0250 | ND | 0.509 | 0.486 | 81.4 | 77.7 | 25 | 12.0-147 | | | 4.64 | 29 |
| Chloroethane | 0.0250 | ND | 0.136 | 0.127 | 21.8 | 20.3 | 25 | 10.0-159 | | | 7.05 | 33 |
| Chloroform | 0.0250 | ND | 0.521 | 0.480 | 82.3 | 75.7 | 25 | 18.0-148 | | | 8.24 | 28 |
| Chloromethane | 0.0250 | ND | 0.472 | 0.432 | 75.5 | 69.1 | 25 | 10.0-146 | | | 8.86 | 29 |
| 2-Chlorotoluene | 0.0250 | ND | 0.585 | 0.571 | 91.7 | 89.6 | 25 | 10.0-151 | | | 2.26 | 35 |
| 4-Chlorotoluene | 0.0250 | 0.0545 | 0.580 | 0.567 | 84.1 | 82.0 | 25 | 10.0-150 | | | 2.26 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | ND | 0.530 | 0.547 | 84.8 | 87.6 | 25 | 10.0-149 | | | 3.15 | 34 |
| 1,2-Dibromoethane | 0.0250 | ND | 0.578 | 0.532 | 90.6 | 83.2 | 25 | 14.0-145 | | | 8.31 | 28 |
| Dibromomethane | 0.0250 | ND | 0.504 | 0.502 | 78.3 | 78.0 | 25 | 18.0-144 | | | 0.440 | 27 |
| 1,2-Dichlorobenzene | 0.0250 | ND | 0.592 | 0.572 | 92.4 | 89.1 | 25 | 10.0-153 | | | 3.48 | 34 |
| 1,3-Dichlorobenzene | 0.0250 | ND | 0.587 | 0.570 | 94.0 | 91.3 | 25 | 10.0-150 | | | 2.91 | 35 |
| 1,4-Dichlorobenzene | 0.0250 | ND | 0.609 | 0.584 | 95.3 | 91.2 | 25 | 10.0-148 | | | 4.22 | 34 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.348 | 0.615 | 0.722 | 42.7 | 59.8 | 25 | 10.0-160 | | | 15.9 | 40 |
| Dichlorodifluoromethane | 0.0250 | ND | 0.497 | 0.474 | 79.5 | 75.8 | 25 | 10.0-160 | | | 4.72 | 30 |
| 1,1-Dichloroethane | 0.0250 | ND | 0.533 | 0.500 | 85.3 | 80.0 | 25 | 19.0-148 | | | 6.43 | 28 |
| 1,2-Dichloroethane | 0.0250 | ND | 0.494 | 0.470 | 79.0 | 75.2 | 25 | 17.0-147 | | | 4.92 | 27 |
| 1,1-Dichloroethene | 0.0250 | ND | 0.500 | 0.479 | 80.0 | 76.6 | 25 | 10.0-150 | | | 4.26 | 31 |
| cis-1,2-Dichloroethene | 0.0250 | ND | 0.537 | 0.502 | 85.9 | 80.4 | 25 | 16.0-145 | | | 6.60 | 28 |
| trans-1,2-Dichloroethene | 0.0250 | ND | 0.531 | 0.508 | 85.0 | 81.2 | 25 | 11.0-142 | | | 4.56 | 29 |
| 1,2-Dichloropropane | 0.0250 | ND | 0.524 | 0.524 | 83.8 | 83.8 | 25 | 17.0-148 | | | 0.0200 | 28 |
| 1,1-Dichloropropene | 0.0250 | ND | 0.496 | 0.477 | 79.3 | 76.3 | 25 | 10.0-150 | | | 3.97 | 30 |
| 1,3-Dichloropropane | 0.0250 | ND | 0.541 | 0.506 | 86.6 | 81.0 | 25 | 16.0-148 | | | 6.66 | 27 |
| cis-1,3-Dichloropropene | 0.0250 | ND | 0.544 | 0.506 | 87.0 | 81.0 | 25 | 13.0-150 | | | 7.16 | 28 |
| trans-1,3-Dichloropropene | 0.0250 | ND | 0.527 | 0.490 | 84.3 | 78.4 | 25 | 10.0-152 | | | 7.20 | 29 |
| 2,2-Dichloropropane | 0.0250 | ND | 0.362 | 0.327 | 57.9 | 52.3 | 25 | 16.0-143 | | | 10.1 | 30 |
| Di-isopropyl ether | 0.0250 | ND | 0.489 | 0.458 | 78.2 | 73.3 | 25 | 16.0-149 | | | 6.48 | 28 |

## L930246-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L930246-01 08/19/17 05:48 • (MS) R3242760-4 08/19/17 07:46 • (MSD) R3242760-5 08/19/17 08:06

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | ND | 0.558 | 0.513 | 89.3 | 82.1 | 25 | 10.0-147 | | | 8.47 | 31 |
| Hexachloro-1,3-butadiene | 0.0250 | ND | 0.482 | 0.488 | 77.1 | 78.1 | 25 | 10.0-154 | | | 1.29 | 40 |
| 2-Hexanone | 0.125 | ND | 2.15 | 2.16 | 68.7 | 69.1 | 25 | 12.0-158 | | | 0.540 | 30 |
| n-Hexane | 0.0250 | ND | 0.440 | 0.448 | 67.8 | 69.0 | 25 | 10.0-140 | | | 1.74 | 34 |
| Iodomethane | 0.125 | ND | 2.67 | 2.52 | 85.5 | 80.5 | 25 | 10.0-157 | | | 6.06 | 34 |
| Isopropylbenzene | 0.0250 | ND | 0.604 | 0.584 | 94.2 | 91.1 | 25 | 10.0-147 | | | 3.33 | 33 |
| p-Isopropyltoluene | 0.0250 | 0.0262 | 0.597 | 0.594 | 91.4 | 90.9 | 25 | 10.0-156 | | | 0.500 | 37 |
| 2-Butanone (MEK) | 0.125 | ND | 2.16 | 2.25 | 62.2 | 65.3 | 25 | 10.0-160 | | | 4.33 | 33 |
| Methylene Chloride | 0.0250 | ND | 0.504 | 0.451 | 80.6 | 72.1 | 25 | 16.0-139 | | | 11.0 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.847 | 2.00 | 1.87 | 37.0 | 32.7 | 25 | 12.0-160 | | | 6.90 | 32 |
| Methyl tert-butyl ether | 0.0250 | 0.0870 | 0.430 | 0.405 | 54.9 | 50.9 | 25 | 21.0-145 | | | 5.97 | 29 |
| Naphthalene | 0.0250 | ND | 0.573 | 0.573 | 86.9 | 86.8 | 25 | 10.0-153 | | | 0.0600 | 36 |
| n-Propylbenzene | 0.0250 | ND | 0.579 | 0.567 | 91.4 | 89.5 | 25 | 10.0-151 | | | 2.06 | 34 |
| Styrene | 0.0250 | ND | 0.626 | 0.624 | 100 | 99.8 | 25 | 10.0-155 | | | 0.390 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | ND | 0.513 | 0.467 | 82.1 | 74.7 | 25 | 10.0-147 | | | 9.52 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.329 | 0.719 | 0.752 | 62.4 | 67.7 | 25 | 10.0-155 | | | 4.48 | 31 |
| Tetrachloroethene | 0.0250 | ND | 0.589 | 0.561 | 94.2 | 89.7 | 25 | 10.0-144 | | | 4.89 | 32 |
| Toluene | 0.0250 | ND | 0.526 | 0.499 | 84.2 | 79.9 | 25 | 10.0-144 | | | 5.25 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | ND | 0.481 | 0.462 | 76.9 | 74.0 | 25 | 10.0-153 | | | 3.84 | 33 |
| 1,2,3-Trichlorobenzene | 0.0250 | ND | 0.573 | 0.551 | 91.7 | 88.1 | 25 | 10.0-153 | | | 3.96 | 40 |
| 1,2,4-Trichlorobenzene | 0.0250 | ND | 0.550 | 0.536 | 88.0 | 85.8 | 25 | 10.0-156 | | | 2.56 | 40 |
| 1,1,1-Trichloroethane | 0.0250 | ND | 0.469 | 0.441 | 75.1 | 70.6 | 25 | 18.0-145 | | | 6.11 | 29 |
| 1,1,2-Trichloroethane | 0.0250 | 0.261 | 0.690 | 0.683 | 68.7 | 67.6 | 25 | 12.0-151 | | | 1.03 | 28 |
| Trichloroethene | 0.0250 | ND | 0.545 | 0.539 | 87.3 | 86.2 | 25 | 11.0-148 | | | 1.23 | 29 |
| Trichlorofluoromethane | 0.0250 | ND | 0.406 | 0.251 | 65.0 | 40.1 | 25 | 10.0-157 | | J3 | 47.4 | 34 |
| 1,2,3-Trichloropropane | 0.0250 | 0.119 | 0.550 | 0.553 | 69.0 | 69.5 | 25 | 10.0-154 | | | 0.610 | 32 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.201 | 0.737 | 0.733 | 85.7 | 85.0 | 25 | 10.0-150 | | | 0.570 | 33 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.181 | 0.724 | 0.726 | 87.0 | 87.2 | 25 | 10.0-151 | | | 0.250 | 34 |
| 1,3,5-Trimethylbenzene | 0.0250 | ND | 0.583 | 0.566 | 93.3 | 90.5 | 25 | 10.0-150 | | | 2.98 | 33 |
| Vinyl acetate | 0.125 | ND | 1.98 | 1.64 | 63.3 | 52.4 | 25 | 10.0-160 | | | 18.7 | 40 |
| Vinyl chloride | 0.0250 | ND | 0.465 | 0.444 | 74.3 | 71.0 | 25 | 10.0-150 | | | 4.62 | 29 |
| Xylenes, Total | 0.0750 | ND | 1.69 | 1.56 | 90.1 | 83.3 | 25 | 10.0-150 | | | 7.87 | 31 |
| *(S) Toluene-d8* | | | | | *106* | *104* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *99.0* | *95.0* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *119* | *122* | | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3243084-3 08/17/17 21:59

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3243084-3 08/17/17 21:59

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *103* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *105* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243084-1 08/17/17 21:01 • (LCSD) R3243084-2 08/17/17 21:20

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 199 | 132 | 159 | 105 | 10.0-160 | | J3 | 40.9 | 23 |
| Acrylonitrile | 125 | 140 | 115 | 112 | 91.8 | 60.0-142 | | | 20.0 | 20 |
| Benzene | 25.0 | 26.0 | 25.7 | 104 | 103 | 69.0-123 | | | 1.42 | 20 |
| Bromobenzene | 25.0 | 24.6 | 24.8 | 98.6 | 99.2 | 79.0-120 | | | 0.610 | 20 |
| Bromodichloromethane | 25.0 | 25.7 | 25.3 | 103 | 101 | 76.0-120 | | | 1.78 | 20 |
| Bromochloromethane | 25.0 | 26.0 | 25.1 | 104 | 100 | 76.0-122 | | | 3.43 | 20 |
| Bromoform | 25.0 | 24.3 | 25.1 | 97.4 | 100 | 67.0-132 | | | 3.18 | 20 |
| Bromomethane | 25.0 | 26.2 | 24.6 | 105 | 98.5 | 18.0-160 | | | 6.17 | 20 |
| n-Butylbenzene | 25.0 | 25.7 | 25.7 | 103 | 103 | 72.0-126 | | | 0.0800 | 20 |
| sec-Butylbenzene | 25.0 | 25.9 | 25.7 | 104 | 103 | 74.0-121 | | | 0.970 | 20 |
| tert-Butylbenzene | 25.0 | 25.8 | 25.6 | 103 | 102 | 75.0-122 | | | 0.980 | 20 |
| Carbon disulfide | 25.0 | 28.3 | 27.8 | 113 | 111 | 55.0-127 | | | 1.51 | 20 |
| Carbon tetrachloride | 25.0 | 25.3 | 24.9 | 101 | 99.5 | 63.0-122 | | | 1.80 | 20 |
| Chlorobenzene | 25.0 | 25.0 | 25.1 | 100 | 100 | 79.0-121 | | | 0.210 | 20 |
| Chlorodibromomethane | 25.0 | 23.9 | 24.2 | 95.4 | 96.9 | 75.0-125 | | | 1.60 | 20 |
| Chloroethane | 25.0 | 27.7 | 26.1 | 111 | 105 | 47.0-152 | | | 5.65 | 20 |
| Chloroform | 25.0 | 26.2 | 25.8 | 105 | 103 | 72.0-121 | | | 1.88 | 20 |
| Chloromethane | 25.0 | 29.1 | 28.4 | 117 | 114 | 48.0-139 | | | 2.57 | 20 |
| 2-Chlorotoluene | 25.0 | 25.4 | 25.4 | 101 | 101 | 74.0-122 | | | 0.0900 | 20 |
| 4-Chlorotoluene | 25.0 | 25.6 | 25.6 | 102 | 102 | 79.0-120 | | | 0.0600 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 24.1 | 22.3 | 96.3 | 89.2 | 64.0-127 | | | 7.64 | 20 |
| 1,2-Dibromoethane | 25.0 | 23.9 | 24.3 | 95.6 | 97.3 | 77.0-123 | | | 1.84 | 20 |
| Dibromomethane | 25.0 | 26.4 | 25.5 | 106 | 102 | 78.0-120 | | | 3.58 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 24.5 | 24.4 | 98.1 | 97.7 | 80.0-120 | | | 0.390 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 25.3 | 25.1 | 101 | 101 | 72.0-123 | | | 0.480 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 24.8 | 24.7 | 99.3 | 98.9 | 77.0-120 | | | 0.440 | 20 |
| Dichlorodifluoromethane | 25.0 | 35.6 | 34.3 | 142 | 137 | 49.0-155 | | | 3.79 | 20 |
| 1,1-Dichloroethane | 25.0 | 27.4 | 26.5 | 110 | 106 | 70.0-126 | | | 3.40 | 20 |
| 1,2-Dichloroethane | 25.0 | 26.1 | 25.8 | 104 | 103 | 67.0-126 | | | 1.06 | 20 |
| 1,1-Dichloroethene | 25.0 | 28.0 | 27.9 | 112 | 111 | 64.0-129 | | | 0.620 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 26.5 | 26.0 | 106 | 104 | 73.0-120 | | | 2.00 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 26.8 | 26.1 | 107 | 104 | 71.0-121 | | | 2.79 | 20 |
| 1,2-Dichloropropane | 25.0 | 27.1 | 26.8 | 108 | 107 | 75.0-125 | | | 0.970 | 20 |
| 1,1-Dichloropropene | 25.0 | 27.1 | 26.7 | 109 | 107 | 71.0-129 | | | 1.41 | 20 |
| 1,3-Dichloropropane | 25.0 | 24.7 | 24.9 | 98.9 | 99.5 | 80.0-121 | | | 0.630 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 24.9 | 24.9 | 99.5 | 99.7 | 79.0-123 | | | 0.230 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 23.8 | 24.5 | 95.2 | 98.1 | 74.0-127 | | | 2.98 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 20.7 | 22.1 | 82.8 | 88.5 | 55.0-134 | | | 6.68 | 20 |
| 2,2-Dichloropropane | 25.0 | 26.2 | 24.5 | 105 | 98.0 | 60.0-125 | | | 6.62 | 20 |
| Di-isopropyl ether | 25.0 | 26.9 | 25.8 | 108 | 103 | 59.0-133 | | | 4.22 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243084-1 08/17/17 21:01 • (LCSD) R3243084-2 08/17/17 21:20

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 25.2 | 25.1 | 101 | 100 | 77.0-120 | | | 0.390 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 22.9 | 23.7 | 91.4 | 94.7 | 64.0-131 | | | 3.51 | 20 |
| 2-Hexanone | 125 | 132 | 130 | 106 | 104 | 58.0-147 | | | 1.26 | 20 |
| n-Hexane | 25.0 | 27.0 | 25.9 | 108 | 104 | 56.0-124 | | | 4.17 | 20 |
| Iodomethane | 125 | 135 | 132 | 108 | 105 | 57.0-140 | | | 2.75 | 20 |
| Isopropylbenzene | 25.0 | 26.0 | 26.0 | 104 | 104 | 75.0-120 | | | 0.100 | 20 |
| p-Isopropyltoluene | 25.0 | 25.1 | 25.0 | 100 | 99.9 | 74.0-126 | | | 0.390 | 20 |
| 2-Butanone (MEK) | 125 | 155 | 131 | 124 | 105 | 37.0-158 | | | 16.6 | 20 |
| Methylene Chloride | 25.0 | 25.8 | 24.4 | 103 | 97.5 | 66.0-121 | | | 5.77 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 130 | 123 | 104 | 98.5 | 59.0-143 | | | 5.06 | 20 |
| Methyl tert-butyl ether | 25.0 | 26.3 | 24.9 | 105 | 99.7 | 64.0-123 | | | 5.46 | 20 |
| Naphthalene | 25.0 | 22.8 | 22.2 | 91.3 | 88.7 | 62.0-128 | | | 2.89 | 20 |
| n-Propylbenzene | 25.0 | 26.0 | 26.1 | 104 | 104 | 79.0-120 | | | 0.440 | 20 |
| Styrene | 25.0 | 25.7 | 26.3 | 103 | 105 | 78.0-124 | | | 2.07 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 24.7 | 24.7 | 98.9 | 98.7 | 75.0-122 | | | 0.190 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 24.7 | 24.2 | 98.7 | 96.9 | 71.0-122 | | | 1.86 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 29.4 | 28.3 | 117 | 113 | 61.0-136 | | | 3.66 | 20 |
| Tetrachloroethene | 25.0 | 24.8 | 24.7 | 99.1 | 99.0 | 70.0-127 | | | 0.110 | 20 |
| Toluene | 25.0 | 24.2 | 24.3 | 97.0 | 97.2 | 77.0-120 | | | 0.260 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 23.9 | 23.6 | 95.8 | 94.6 | 61.0-133 | | | 1.24 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 23.5 | 23.8 | 93.9 | 95.2 | 69.0-129 | | | 1.38 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 26.6 | 26.0 | 106 | 104 | 68.0-122 | | | 2.49 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 24.1 | 24.4 | 96.3 | 97.5 | 78.0-120 | | | 1.27 | 20 |
| Trichloroethene | 25.0 | 26.2 | 25.9 | 105 | 104 | 78.0-120 | | | 1.11 | 20 |
| Trichlorofluoromethane | 25.0 | 28.4 | 26.9 | 114 | 108 | 56.0-137 | | | 5.48 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 24.9 | 24.3 | 99.4 | 97.1 | 72.0-124 | | | 2.36 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 24.7 | 24.5 | 98.9 | 98.0 | 75.0-120 | | | 0.880 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 24.5 | 24.0 | 98.2 | 95.9 | 75.0-120 | | | 2.32 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 25.2 | 25.2 | 101 | 101 | 75.0-120 | | | 0.0400 | 20 |
| Vinyl acetate | 125 | 123 | 118 | 98.5 | 94.5 | 46.0-160 | | | 4.13 | 20 |
| Vinyl chloride | 25.0 | 29.7 | 28.9 | 119 | 116 | 64.0-133 | | | 2.56 | 20 |
| Xylenes, Total | 75.0 | 75.8 | 75.7 | 101 | 101 | 77.0-120 | | | 0.130 | 20 |
| *(S) Toluene-d8* | | | | *103* | *105* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *104* | *103* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *102* | *104* | *80.0-120* | | | | |

## Abbreviations and Definitions

| | |
|---|---|
| SDG | Sample Delivery Group. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| RDL | Reported Detection Limit. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| RPD | Relative Percent Difference. |
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Rec. | Recovery. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

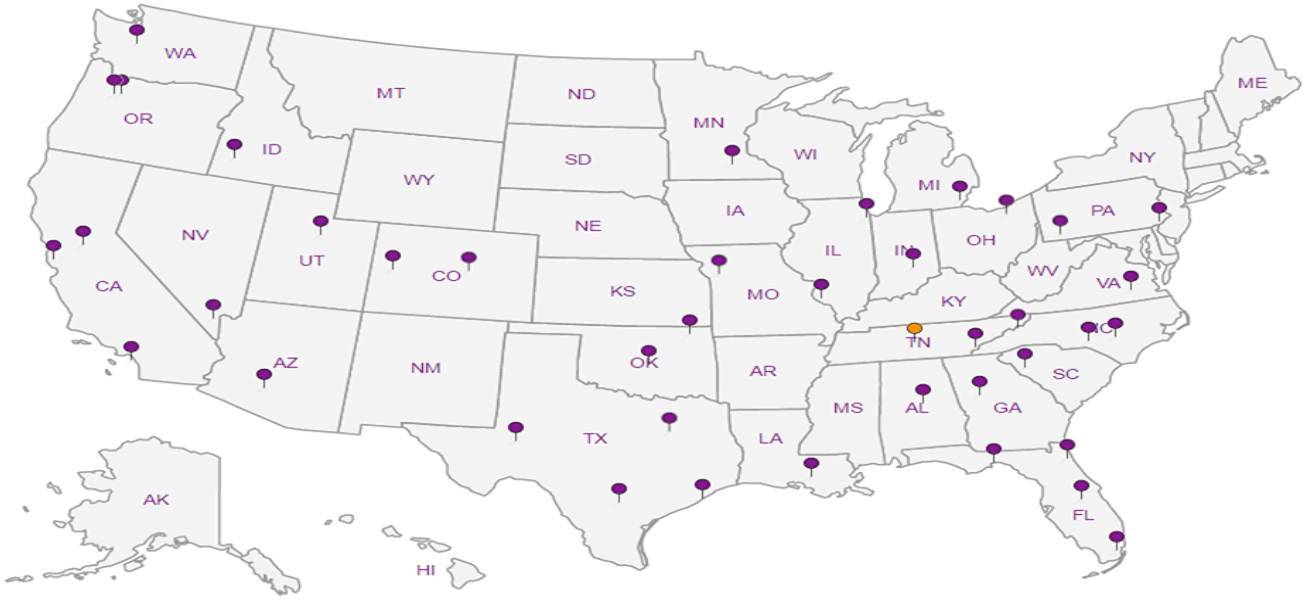
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE / WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): K. Springstead

Site/Facility ID # 1413.001.02.602

P.O. # 1413.001.02.602

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day X 5 Day (Rad Only)
___ Two Day X 10 Day (Rad Only)
___ Three Day STANDARD TAT

Quote #

Date Results Needed

Chain of Custody Page 1 of 1

ESC LABORATORY SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L929881

C070

Acctnum: PESENVSWA
Template: T126581
Prelogin: P613267
TSR: 110 - Brian Ford
PB: 8/7/17

Shipped Via: FedEX 2nd Day

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-133-20 | Grab | SS | 20 | 8-15-17 | 1000 | 5 | X | X | X | X | | GX/VOCs | -01 |
| MW-133-35 | | SS | 35 | 8-15-17 | 1040 | 5 | X | X | X | X | | | -02 |
| MW-133-45 | | SS | 45 | 8-15-17 | 1110 | 5 | X | X | X | X | | | -03 |
| MW-133-55 | | SS | 55 | 8-15-17 | 1145 | 5 | X | X | X | X | | | -04 |
| MW-133-58 | | SS | 58 | 8-15-17 | 1215 | 5 | X | X | X | X | X | | -05 |
| MW-133-65 | | SS | 65 | 8-15-17 | 1400 | 5 | X | X | X | X | | | -06 |
| MW-133-80-W | | GW | 80 | 8-15-17 | 1515 | 6 | X | X | X | X | X | | -07 |
| MW- | | SS | | | | 5 | X | | X | X | | | |
| MW- | | SS | | | | 5 | X | | X | X | | | |
| MW- | | SS | | | | 5 | X | | X | X | | | |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes (No) HCL / MeoH TBR |
|---|---|---|---|---|
| | 8-15-17 | 1600 | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 1.7 °C Bottles Received: 41 |
| | | | | If preservation required by Login: Date/Time |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 8-16-17 Time: 845 |
| | | | | Hold: |

Condition: NCF / OK

# MEMORANDUM

**TO:** Project File **DATE:** September 21, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.002

**TASK:** August 15, 2017 – Soil and Groundwater Samples

**LAB:** ESC Lab ID L929881

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Six (6) soil samples and one (1) groundwater sample were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on August 15, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L929881. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in X# ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L934130, L934673, L934916, and ). The quality assurance review of the sample data associated with SDG L929881 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested with the following discussion:

- Review of the chain of custody indicates that sample MW-133-75 (L929881-08) was not included. PES confirmed the sample identification and request for analysis with ESC on August 17, 2017.

## Sample Collection and Preservation

Samples were collected on August 15, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 1.7 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved water from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of 7 days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C for soils:* Continuing calibration verification (CCV) issues were noted by ESC for hexachloro-1,3-butadiene, 1,2,3-trichlorobenzene, and 1,2,4-trichlorobenzene associated with analytical batch WG1010895 (analyzed on August 22, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C for soils:* Continuing calibration verification (CCV) issues were noted by ESC for bromomethane, 2,2-dichloropropane, 1,1,2-trichlorotrifluoroethane, and tetrachloroethene associated with analytical batch WG1011219 (analyzed on August 19, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Sample MW-133-75 results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C for water:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, dichlorodifluoromethane, 2-butanone (MEK) associated with analytical batch WG1010972 (analyzed on August 18 and 22, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Sample MW-133-80-W results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at or above the reported detection limits (RDLs).

*NWTPH-Gx Method:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDL.

*Total Solids by SM 2540 G 2011:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (% solids) were not detected at significant levels in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C and NWTPH-Gx:*
A trip blank was not collected.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicates were not collected.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results and/or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on a non-client sample and on sample MW-133-55 within the analytical batches. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSD, MS/MSD, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters with the following discussion:

- LCS/LCSD (Batch WG1010895) RPD value for compound 1,2-dibromo-3-chloropropane is above laboratory acceptance criteria (20%) and qualified by the laboratory (J3). No action was taken on this basis as LCS/LCSD percent recovery results are recovered wide but are within control limits.

- LCS (Batch WG1011219) percent recovery for compound tetrachloroethene is slightly above laboratory criteria and qualified by the laboratory (J4). **Sample MW-133-75 tetrachloroethene result is estimated and qualified (J).**

- LCSD (Batch WG1010972) RPD value for compound acetone is above laboratory acceptance criteria (20%) and qualified by the laboratory (J3). No action was taken on this basis as LCS/LCSD percent recovery results are recovered wide but are within control limits.

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for water and soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analysis were performed on non-client samples. MS/MSD % Rs and RPD were within the laboratory control criteria for soils with one exception:

- MS/MSD (Batch WG1010895) spike recovery results for compound acetone were recovered above the control limit criteria. No action is taken since the spike was performed on a non-client sample and associated LCS/LCSD recoveries are acceptable.

- MS/MSD (Batch WG1011219) RPD result for trichlorofluoromethane is above laboratory acceptance criteria (20%) and qualified by the laboratory (J3). No action was taken on this basis as MS/MSD percent recovery results are recovered wide but are within control limits.

*NWTPH-Gx Method:*
MS/MSD analysis was not performed. Refer to LCS/LCSD results for accuracy and precision data.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following exception:

- ESC notes indicate that Sample MW-133-35 was not reanalyzed at a lower dilution (for PCE) as there was no low level sodium bisulfite vials remaining. No action is taken other than to note this.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

PES requested and ESC confirmed that there does not appear to be a gasoline chromatographic pattern in selected samples, and in "all likelihood the gasoline values are in the fact the high levels of chlorinated VOCs." **Gasoline range organic results for samples MW-133-45, MW-133-55, MW-133-58, MW-133-65, and MW-133-80-W are qualified as estimated (J) based on chromatographic patterns in the samples and elevated chlorinated VOCs (CVOCs).**

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.9 | | 1 | 08/21/2017 09:43 | WG1011911 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.183 | | 0.0400 | 0.118 | 1 | 08/20/2017 01:10 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.7* | | | *77.0-120* | | *08/20/2017 01:10* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0279 J | J | 0.0118 | 0.0589 | 1 | 08/22/2017 03:23 | WG1010895 |
| Acrylonitrile | U | | 0.00211 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Benzene | 0.000422 J | J | 0.000318 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Bromobenzene | U | | 0.000335 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Bromodichloromethane | U | | 0.000299 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Bromochloromethane | U | | 0.000460 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| Bromoform | U | | 0.000500 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Bromomethane | U | | 0.00158 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| n-Butylbenzene | U | | 0.000304 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| sec-Butylbenzene | U | | 0.000237 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| tert-Butylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Carbon disulfide | 0.00252 | | 0.000260 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Carbon tetrachloride | U | | 0.000387 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Chlorobenzene | U | | 0.000250 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Chlorodibromomethane | U | | 0.000440 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Chloroethane | U | | 0.00111 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| Chloroform | U | | 0.000270 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| Chloromethane | U | | 0.000442 | 0.00295 | 1 | 08/22/2017 03:23 | WG1010895 |
| 2-Chlorotoluene | U | | 0.000355 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 4-Chlorotoluene | U | | 0.000283 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00124 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.000404 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Dibromomethane | U | | 0.000450 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.000359 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.000282 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.000266 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.000840 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.000235 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.000312 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1-Dichloroethene | 0.000487 J | J | 0.000357 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| cis-1,2-Dichloroethene | 0.159 | | 0.000277 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| trans-1,2-Dichloroethene | 0.000591 J | J | 0.000311 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.000422 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.000374 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.000244 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.000309 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.000315 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.000917 | 0.00295 | 1 | 08/22/2017 03:23 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.000329 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Di-isopropyl ether | U | | 0.000292 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Ethylbenzene | U | | 0.000350 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Hexachloro-1,3-butadiene | U UJ | J0 | 0.000403 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 2-Hexanone | U | | 0.00161 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |
| n-Hexane | 0.00531 J | J | 0.000342 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |

JC 9/21/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00298 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Isopropylbenzene | U | | 0.000286 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| p-Isopropyltoluene | U | | 0.000240 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 2-Butanone (MEK) | U | | 0.00552 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Methylene Chloride | U | | 0.00118 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00222 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Methyl tert-butyl ether | U | | 0.000250 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Naphthalene | U | | 0.00118 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Styrene | U | | 0.000276 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000311 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000430 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000430 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Tetrachloroethene | 3.62 | | 0.00813 | 0.0295 | 25 | 08/23/2017 03:15 | WG1010895 |
| Toluene | U | | 0.000511 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2,3-Trichlorobenzene | U UJ | J0 | 0.000361 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2,4-Trichlorobenzene | U UJ | J0 | 0.000457 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.000337 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.000326 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Trichloroethene | 0.0688 | | 0.000329 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Trichlorofluoromethane | U | | 0.000450 | 0.00589 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.000873 | 0.00295 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.000338 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.000313 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Vinyl chloride | 0.000389 J | J | 0.000343 | 0.00118 | 1 | 08/22/2017 03:23 | WG1010895 |
| Xylenes, Total | U | | 0.000823 | 0.00354 | 1 | 08/22/2017 03:23 | WG1010895 |
| *(S) Toluene-d8* | *92.3* | | | *80.0-120* | | *08/23/2017 03:15* | WG1010895 |
| *(S) Toluene-d8* | *93.4* | | | *80.0-120* | | *08/22/2017 03:23* | WG1010895 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/23/2017 03:15* | WG1010895 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *08/22/2017 03:23* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/22/2017 03:23* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/23/2017 03:15* | WG1010895 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.6 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0443 | 0.131 | 1 | 08/20/2017 01:32 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.5* | | | *77.0-120* | | *08/20/2017 01:32* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.169 | | 0.0131 | 0.0653 | 1 | 08/22/2017 03:45 | WG1010895 |
| Acrylonitrile | U | | 0.00234 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Benzene | U | | 0.000353 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Bromobenzene | U | | 0.000371 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Bromodichloromethane | U | | 0.000332 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Bromochloromethane | U | | 0.000509 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| Bromoform | U | | 0.000554 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Bromomethane | U | | 0.00175 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| n-Butylbenzene | U | | 0.000337 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| sec-Butylbenzene | U | | 0.000262 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| tert-Butylbenzene | U | | 0.000269 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Carbon disulfide | 0.000593 J | J | 0.000289 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Carbon tetrachloride | U | | 0.000428 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Chlorobenzene | U | | 0.000277 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Chlorodibromomethane | U | | 0.000487 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Chloroethane | U | | 0.00124 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| Chloroform | U | | 0.000299 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| Chloromethane | U | | 0.000490 | 0.00326 | 1 | 08/22/2017 03:45 | WG1010895 |
| 2-Chlorotoluene | U | | 0.000393 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 4-Chlorotoluene | U | | 0.000313 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00137 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.000448 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Dibromomethane | U | | 0.000499 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.000398 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.000312 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.000295 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.000931 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.000260 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.000346 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1-Dichloroethene | U | | 0.000396 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| cis-1,2-Dichloroethene | 0.000361 J | J | 0.000307 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| trans-1,2-Dichloroethene | U | | 0.000345 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.000467 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.000414 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.000270 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.000342 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.000349 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.00102 | 0.00326 | 1 | 08/22/2017 03:45 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.000364 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Di-isopropyl ether | U | | 0.000324 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Ethylbenzene | U | | 0.000388 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Hexachloro-1,3-butadiene | U UJ | J0 | 0.000447 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 2-Hexanone | U | | 0.00179 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |
| n-Hexane | U | | 0.000379 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00330 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Isopropylbenzene | U | | 0.000317 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| p-Isopropyltoluene | U | | 0.000266 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 2-Butanone (MEK) | 0.0258 | | 0.00611 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Methylene Chloride | U | | 0.00131 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00245 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Methyl tert-butyl ether | U | | 0.000277 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Naphthalene | U | | 0.00131 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| n-Propylbenzene | U | | 0.000269 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Styrene | U | | 0.000306 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000345 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000477 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000477 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Tetrachloroethene | U | | 0.00901 | 0.0326 | 25 | 08/23/2017 03:36 | WG1010895 |
| Toluene | U | | 0.000567 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2,3-Trichlorobenzene | U UJ | J0 | 0.000400 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2,4-Trichlorobenzene | U UJ | J0 | 0.000507 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.000373 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.000362 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Trichloroethene | 0.000594 J | J | 0.000364 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Trichlorofluoromethane | U | | 0.000499 | 0.00653 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.000967 | 0.00326 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.000275 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.000375 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.000347 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Vinyl acetate | U | | 0.00312 | 0.0131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Vinyl chloride | U | | 0.000380 | 0.00131 | 1 | 08/22/2017 03:45 | WG1010895 |
| Xylenes, Total | U | | 0.000911 | 0.00392 | 1 | 08/22/2017 03:45 | WG1010895 |
| *(S) Toluene-d8* | *96.1* | | | *80.0-120* | | *08/22/2017 03:45* | WG1010895 |
| *(S) Toluene-d8* | *86.2* | | | *80.0-120* | | *08/23/2017 03:36* | WG1010895 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *08/23/2017 03:36* | WG1010895 |
| *(S) Dibromofluoromethane* | *114* | | | *74.0-131* | | *08/22/2017 03:45* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/23/2017 03:36* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/22/2017 03:45* | WG1010895 |

Sample Narrative:

L929881-02 WG1010895: No low level sodium bisulfite vials remaining. PCE cannot be analyzed at a lower dilution.

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.0 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 3.59 J | | 0.0368 | 0.109 | 1 | 08/20/2017 01:54 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.5* | | | *77.0-120* | | *08/20/2017 01:54* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0142 J | J | 0.0109 | 0.0543 | 1 | 08/22/2017 04:06 | WG1010895 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Benzene | U | | 0.000293 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Bromochloromethane | U | | 0.000424 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| Bromoform | U | | 0.000461 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Bromomethane | U | | 0.00146 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| n-Butylbenzene | U | | 0.000280 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| sec-Butylbenzene | U | | 0.000218 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Carbon disulfide | 0.00239 | | 0.000240 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Carbon tetrachloride | U | | 0.000356 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Chlorobenzene | U | | 0.000230 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Chlorodibromomethane | U | | 0.000405 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Chloroethane | U | | 0.00103 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| Chloroform | U | | 0.000249 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| Chloromethane | U | | 0.000408 | 0.00272 | 1 | 08/22/2017 04:06 | WG1010895 |
| 2-Chlorotoluene | U | | 0.000327 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00114 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.000373 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Dibromomethane | U | | 0.000415 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.000775 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1-Dichloroethene | 0.0115 | | 0.000329 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| cis-1,2-Dichloroethene | 13.0 | | 0.0511 | 0.217 | 200 | 08/23/2017 03:57 | WG1010895 |
| trans-1,2-Dichloroethene | 0.00508 | | 0.000287 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.000389 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.000846 | 0.00272 | 1 | 08/22/2017 04:06 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Hexachloro-1,3-butadiene | U UJ | J0 | 0.000372 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |
| n-Hexane | 0.000378 J | J | 0.000315 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Isopropylbenzene | U | | 0.000264 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 2-Butanone (MEK) | U | | 0.00509 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Methylene Chloride | U | | 0.00109 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Methyl tert-butyl ether | U | | 0.000230 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Naphthalene | U | | 0.00109 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Styrene | U | | 0.000254 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000397 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000397 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Tetrachloroethene | 5.17 | | 0.0600 | 0.217 | 200 | 08/23/2017 03:57 | WG1010895 |
| Toluene | U | | 0.000472 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2,3-Trichlorobenzene | U UJ | J0 | 0.000333 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2,4-Trichlorobenzene | U UJ | J0 | 0.000422 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.000311 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.000301 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Trichloroethene | 0.0309 | | 0.000303 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Trichlorofluoromethane | U | | 0.000415 | 0.00543 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.000805 | 0.00272 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.000229 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.000312 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 08/22/2017 04:06 | WG1010895 |
| Vinyl chloride | 0.323 | | 0.0633 | 0.217 | 200 | 08/23/2017 03:57 | WG1010895 |
| Xylenes, Total | U | | 0.000759 | 0.00326 | 1 | 08/22/2017 04:06 | WG1010895 |
| *(S) Toluene-d8* | *95.7* | | | *80.0-120* | | *08/22/2017 04:06* | WG1010895 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/23/2017 03:57* | WG1010895 |
| *(S) Dibromofluoromethane* | *114* | | | *74.0-131* | | *08/22/2017 04:06* | WG1010895 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/23/2017 03:57* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *64.0-132* | | *08/22/2017 04:06* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/23/2017 03:57* | WG1010895 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.8 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 38.9 | J | 2.08 | 6.12 | 50 | 08/22/2017 15:26 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.5* | | | *77.0-120* | | *08/22/2017 15:26* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 2.45 | 12.2 | 200 | 08/22/2017 04:27 | WG1010895 |
| Acrylonitrile | U | | 0.438 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |
| Benzene | U | | 0.0661 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Bromobenzene | U | | 0.0695 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Bromodichloromethane | U | | 0.0621 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Bromochloromethane | U | | 0.0954 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| Bromoform | U | | 0.104 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Bromomethane | U | | 0.328 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| n-Butylbenzene | U | | 0.0631 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| sec-Butylbenzene | U | | 0.0492 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| tert-Butylbenzene | U | | 0.0504 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Carbon disulfide | U | | 0.0541 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Carbon tetrachloride | U | | 0.0802 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Chlorobenzene | U | | 0.0519 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Chlorodibromomethane | U | | 0.0912 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Chloroethane | U | | 0.231 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| Chloroform | U | | 0.0560 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| Chloromethane | U | | 0.0917 | 0.612 | 200 | 08/22/2017 04:27 | WG1010895 |
| 2-Chlorotoluene | U | | 0.0736 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 4-Chlorotoluene | U | | 0.0587 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.257 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.0839 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Dibromomethane | U | | 0.0935 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.0746 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.0585 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.0553 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.175 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.0487 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.0648 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1-Dichloroethene | U | | 0.0741 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| cis-1,2-Dichloroethene | 4.09 | | 0.287 | 1.22 | 1000 | 08/23/2017 04:18 | WG1010895 |
| trans-1,2-Dichloroethene | U | | 0.0646 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.0876 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.0775 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.0506 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.0641 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.0653 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.191 | 0.612 | 200 | 08/22/2017 04:27 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.0683 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Di-isopropyl ether | U | | 0.0607 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Ethylbenzene | U | | 0.0727 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Hexachloro-1,3-butadiene | U | UJ J0 | 0.0837 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 2-Hexanone | U | | 0.335 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |
| n-Hexane | U | | 0.0709 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.619 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |
| Isopropylbenzene | U | | 0.0594 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| p-Isopropyltoluene | 0.0804 J | J | 0.0499 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 2-Butanone (MEK) | U | | 1.14 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |
| Methylene Chloride | U | | 0.245 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.460 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |
| Methyl tert-butyl ether | 0.0801 J | J | 0.0519 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Naphthalene | U | | 0.245 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| n-Propylbenzene | U | | 0.0504 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Styrene | U | | 0.0572 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0646 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0893 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0893 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Tetrachloroethene | 114 | | 3.38 | 12.2 | 10000 | 08/23/2017 15:19 | WG1010895 |
| Toluene | U | | 0.106 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2,3-Trichlorobenzene | U UJ | JO | 0.0749 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2,4-Trichlorobenzene | U UJ | JO | 0.0949 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.0700 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.0678 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Trichloroethene | 0.988 | | 0.0683 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Trichlorofluoromethane | U | | 0.0935 | 1.22 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.181 | 0.612 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.0516 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.0702 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.0651 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Vinyl acetate | U | | 0.585 | 2.45 | 200 | 08/22/2017 04:27 | WG1010895 |
| Vinyl chloride | U | | 0.0712 | 0.245 | 200 | 08/22/2017 04:27 | WG1010895 |
| Xylenes, Total | U | | 0.171 | 0.734 | 200 | 08/22/2017 04:27 | WG1010895 |
| *(S) Toluene-d8* | *97.9* | | | *80.0-120* | | *08/22/2017 04:27* | WG1010895 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/23/2017 15:19* | WG1010895 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/23/2017 04:18* | WG1010895 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/23/2017 04:18* | WG1010895 |
| *(S) Dibromofluoromethane* | *95.8* | | | *74.0-131* | | *08/23/2017 15:19* | WG1010895 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *08/22/2017 04:27* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *08/23/2017 04:18* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *08/23/2017 15:19* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *08/22/2017 04:27* | WG1010895 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.6 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 387 | J | 20.1 | 59.1 | 500 | 08/22/2017 15:49 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.3* | | | *77.0-120* | | *08/22/2017 15:49* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 59.1 | 296 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Acrylonitrile | U | | 10.6 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Benzene | U | | 1.60 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Bromobenzene | U | | 1.68 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Bromodichloromethane | U | | 1.50 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Bromochloromethane | U | | 2.31 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Bromoform | U | | 2.51 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Bromomethane | U | | 7.92 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| n-Butylbenzene | U | | 1.53 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| sec-Butylbenzene | U | | 1.18 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| tert-Butylbenzene | U | | 1.22 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Carbon disulfide | U | | 1.30 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Carbon tetrachloride | U | | 1.94 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Chlorobenzene | U | | 1.25 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Chlorodibromomethane | U | | 2.20 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Chloroethane | U | | 5.59 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Chloroform | U | | 1.35 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Chloromethane | U | | 2.22 | 14.8 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 2-Chlorotoluene | U | | 1.77 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 4-Chlorotoluene | U | | 1.42 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 6.21 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2-Dibromoethane | U | | 2.03 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Dibromomethane | U | | 2.26 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 1.80 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 1.42 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 1.34 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Dichlorodifluoromethane | U | | 4.21 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1-Dichloroethane | U | | 1.18 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2-Dichloroethane | U | | 1.56 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1-Dichloroethene | U | | 1.80 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| cis-1,2-Dichloroethene | U | | 1.40 | 5.91 | 5000 | 08/23/2017 04:41 | WG1010895 |
| trans-1,2-Dichloroethene | U | | 1.56 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2-Dichloropropane | U | | 2.12 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1-Dichloropropene | U | | 1.87 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,3-Dichloropropane | U | | 1.23 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 1.55 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 1.58 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 4.60 | 14.8 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 2,2-Dichloropropane | U | | 1.66 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Di-isopropyl ether | U | | 1.47 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Ethylbenzene | U | | 1.75 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Hexachloro-1,3-butadiene | U | UJ J0 | 2.02 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 2-Hexanone | U | | 8.10 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |
| n-Hexane | U | | 1.71 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 14.9 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Isopropylbenzene | U | | 1.44 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| p-Isopropyltoluene | U | | 1.21 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 2-Butanone (MEK) | U | | 27.7 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Methylene Chloride | U | | 5.91 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 11.1 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Methyl tert-butyl ether | U | | 1.25 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Naphthalene | U | | 5.91 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| n-Propylbenzene | U | | 1.22 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Styrene | U | | 1.38 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 1.56 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 2.15 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 2.15 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Tetrachloroethene | 691 | | 1.63 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Toluene | U | | 2.57 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2,3-Trichlorobenzene | U UJ | J0 | 1.81 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2,4-Trichlorobenzene | U UJ | J0 | 2.29 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 1.69 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 1.63 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Trichloroethene | U | | 1.66 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Trichlorofluoromethane | U | | 2.26 | 29.6 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 4.38 | 14.8 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 1.25 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 1.70 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 1.57 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Vinyl acetate | U | | 14.2 | 59.1 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Vinyl chloride | U | | 1.73 | 5.91 | 5000 | 08/22/2017 04:48 | WG1010895 |
| Xylenes, Total | U | | 4.13 | 17.7 | 5000 | 08/22/2017 04:48 | WG1010895 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/23/2017 04:41* | WG1010895 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/22/2017 04:48* | WG1010895 |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* | | *08/22/2017 04:48* | WG1010895 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/23/2017 04:41* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/22/2017 04:48* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/23/2017 04:41* | WG1010895 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.4 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 7.21 J | | 0.0392 | 0.116 | 1 | 08/19/2017 19:38 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.4* | | | *77.0-120* | | *08/19/2017 19:38* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0188 J | J | 0.0116 | 0.0579 | 1 | 08/22/2017 05:08 | WG1010895 |
| Acrylonitrile | U | | 0.00207 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Bromobenzene | U | | 0.000329 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Bromochloromethane | U | | 0.000451 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| Bromoform | U | | 0.000491 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Bromomethane | U | | 0.00155 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| tert-Butylbenzene | U | | 0.000238 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Carbon disulfide | 0.00554 | | 0.000256 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Carbon tetrachloride | U | | 0.000380 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Chlorobenzene | U | | 0.000245 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Chlorodibromomethane | U | | 0.000432 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Chloroethane | U | | 0.00109 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| Chloroform | U | | 0.000265 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| Chloromethane | U | | 0.000434 | 0.00289 | 1 | 08/22/2017 05:08 | WG1010895 |
| 2-Chlorotoluene | U | | 0.000348 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00122 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.000397 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Dibromomethane | U | | 0.000442 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.000825 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1-Dichloroethene | 0.00832 | | 0.000351 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| cis-1,2-Dichloroethene | 1.41 | | 0.0681 | 0.289 | 250 | 08/23/2017 05:02 | WG1010895 |
| trans-1,2-Dichloroethene | 0.00123 | | 0.000306 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.000414 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.000367 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.000303 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.000901 | 0.00289 | 1 | 08/22/2017 05:08 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.000323 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Di-isopropyl ether | U | | 0.000287 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Ethylbenzene | U | | 0.000344 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Hexachloro-1,3-butadiene | U UJ | J0 | 0.000396 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |
| n-Hexane | 0.000897 J | J | 0.000336 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00293 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Isopropylbenzene | U | | 0.000281 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 2-Butanone (MEK) | U | | 0.00542 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Methylene Chloride | U | | 0.00116 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Methyl tert-butyl ether | U | | 0.000245 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Naphthalene | U | | 0.00116 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| n-Propylbenzene | U | | 0.000238 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000422 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000422 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Tetrachloroethene | 36.0 | | 0.0799 | 0.289 | 250 | 08/23/2017 05:02 | WG1010895 |
| Toluene | U | | 0.000502 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2,3-Trichlorobenzene | U UJ | J0 | 0.000354 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2,4-Trichlorobenzene | U UJ | J0 | 0.000449 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Trichloroethene | 2.96 | | 0.0808 | 0.289 | 250 | 08/23/2017 05:02 | WG1010895 |
| Trichlorofluoromethane | U | | 0.000442 | 0.00579 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.000858 | 0.00289 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.000332 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Vinyl chloride | 0.00631 | | 0.000337 | 0.00116 | 1 | 08/22/2017 05:08 | WG1010895 |
| Xylenes, Total | U | | 0.000808 | 0.00347 | 1 | 08/22/2017 05:08 | WG1010895 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *08/23/2017 05:02* | WG1010895 |
| *(S) Toluene-d8* | *93.1* | | | *80.0-120* | | *08/22/2017 05:08* | WG1010895 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *08/22/2017 05:08* | WG1010895 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *08/23/2017 05:02* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *08/22/2017 05:08* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/23/2017 05:02* | WG1010895 |

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## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 2990 J | | 31.6 | 100 | 1 | 08/20/2017 22:48 | WG1011763 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-122* | | *08/20/2017 22:48* | WG1011763 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 6.79 J | J J0 J3 | 1.05 | 25.0 | 1 | 08/18/2017 03:30 | WG1010972 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| Benzene | 0.808 | | 0.0896 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 08/18/2017 03:30 | WG1010972 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Dichlorodifluoromethane | U UJ | J0 | 0.127 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1-Dichloroethane | 0.274 J | J | 0.114 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1-Dichloroethene | 37.2 | | 0.188 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| cis-1,2-Dichloroethene | 182 | | 18.7 | 100 | 200 | 08/22/2017 03:34 | WG1010972 |
| trans-1,2-Dichloroethene | 3.00 | | 0.152 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Ethylbenzene | 0.228 J | J | 0.158 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| n-Hexane | 1.24 J | J | 0.305 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 08/18/2017 03:30 | WG1010972 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 2-Butanone (MEK) | 2.20 J | J J0 | 1.28 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Naphthalene | 0.401 J | J | 0.174 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Styrene | U | | 0.117 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Tetrachloroethene | 6690 | | 39.8 | 100 | 200 | 08/22/2017 03:34 | WG1010972 |
| Toluene | 774 | | 82.4 | 100 | 200 | 08/22/2017 03:34 | WG1010972 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Trichloroethene | 797 | | 30.6 | 100 | 200 | 08/22/2017 03:34 | WG1010972 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2,4-Trimethylbenzene | 0.151 J | J | 0.123 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 08/18/2017 03:30 | WG1010972 |
| Vinyl chloride | 46.2 | | 0.118 | 0.500 | 1 | 08/18/2017 03:30 | WG1010972 |
| Xylenes, Total | 0.708 J | J | 0.316 | 1.50 | 1 | 08/18/2017 03:30 | WG1010972 |
| *(S) Toluene-d8* | *116* | | | *80.0-120* | | *08/18/2017 03:30* | WG1010972 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *08/22/2017 03:34* | WG1010972 |
| *(S) Dibromofluoromethane* | *88.7* | | | *76.0-123* | | *08/22/2017 03:34* | WG1010972 |
| *(S) Dibromofluoromethane* | *98.6* | | | *76.0-123* | | *08/18/2017 03:30* | WG1010972 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *08/22/2017 03:34* | WG1010972 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *80.0-120* | | *08/18/2017 03:30* | WG1010972 |

JC 9/21/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.0 | | 1 | 08/21/2017 09:45 | WG1011920 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0394 | 0.116 | 1 | 08/19/2017 20:00 | WG1011634 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* | | *08/19/2017 20:00* | WG1011634 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0582 | 1 | 08/19/2017 01:12 | WG1011219 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Benzene | U | | 0.000314 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Bromochloromethane | U | | 0.000454 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| Bromoform | U | | 0.000493 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Bromomethane | U UJ | J0 | 0.00156 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| n-Butylbenzene | U | | 0.000300 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| sec-Butylbenzene | U | | 0.000234 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| tert-Butylbenzene | U | | 0.000240 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Carbon disulfide | 0.000728 J | J | 0.000257 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Carbon tetrachloride | U | | 0.000382 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Chlorobenzene | U | | 0.000247 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Chlorodibromomethane | U | | 0.000434 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Chloroethane | U | | 0.00110 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| Chloroform | U | | 0.000266 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| Chloromethane | U | | 0.000436 | 0.00291 | 1 | 08/19/2017 01:12 | WG1011219 |
| 2-Chlorotoluene | U | | 0.000350 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2-Dibromoethane | U | | 0.000399 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Dibromomethane | U | | 0.000444 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2-Dichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,3-Dichlorobenzene | U | | 0.000278 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,4-Dichlorobenzene | U | | 0.000263 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Dichlorodifluoromethane | U | | 0.000829 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1-Dichloroethane | U | | 0.000232 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2-Dichloroethane | U | | 0.000308 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1-Dichloroethene | U | | 0.000352 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| cis-1,2-Dichloroethene | 0.00191 | | 0.000273 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| trans-1,2-Dichloroethene | U | | 0.000307 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1-Dichloropropene | U | | 0.000369 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,3-Dichloropropane | U | | 0.000241 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| cis-1,3-Dichloropropene | U | | 0.000305 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| trans-1,3-Dichloropropene | U | | 0.000311 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| trans-1,4-Dichloro-2-butene | U | | 0.000905 | 0.00291 | 1 | 08/19/2017 01:12 | WG1011219 |
| 2,2-Dichloropropane | U UJ | J0 | 0.000325 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Di-isopropyl ether | U | | 0.000289 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Ethylbenzene | U | | 0.000346 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Hexachloro-1,3-butadiene | U | | 0.000398 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |
| n-Hexane | U | | 0.000337 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |

JC 9/21/17

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Isopropylbenzene | U | | 0.000283 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 2-Butanone (MEK) | U | | 0.00544 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Methylene Chloride | U | | 0.00116 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00219 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Methyl tert-butyl ether | U | | 0.000247 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Naphthalene | U | | 0.00116 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| n-Propylbenzene | U | | 0.000240 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000307 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000425 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1,2-Trichlorotrifluoroethane | U UJ | J0 | 0.000425 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Tetrachloroethene | 0.0468 J | J0 J4 | 0.000321 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Toluene | U | | 0.000505 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2,3-Trichlorobenzene | U | | 0.000356 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2,4-Trichlorobenzene | U | | 0.000451 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1,1-Trichloroethane | U | | 0.000333 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Trichloroethene | 0.000647 J | J | 0.000325 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Trichlorofluoromethane | U | | 0.000444 | 0.00582 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2,3-Trichloropropane | U | | 0.000862 | 0.00291 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,2,3-Trimethylbenzene | U | | 0.000334 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Vinyl acetate | U | | 0.00278 | 0.0116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Vinyl chloride | U | | 0.000339 | 0.00116 | 1 | 08/19/2017 01:12 | WG1011219 |
| Xylenes, Total | U | | 0.000812 | 0.00349 | 1 | 08/19/2017 01:12 | WG1011219 |
| *(S) Toluene-d8* | *112* | | | *80.0-120* | | *08/19/2017 01:12* | WG1011219 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *08/19/2017 01:12* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/19/2017 01:12* | WG1011219 |

JC 9/21/17

# ANALYTICAL REPORT

August 24, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L929901 |
| Samples Received: | 08/16/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-206-15 L929901-01 Solid

Collected by: K. Springstead | Collected date/time: 08/14/17 10:25 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011913 | 1 | 08/21/17 09:09 | 08/21/17 09:20 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011760 | 1 | 08/14/17 10:25 | 08/20/17 14:59 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 25 | 08/14/17 10:25 | 08/23/17 01:30 | ACG |

## B-206-30 L929901-02 Solid

Collected by: K. Springstead | Collected date/time: 08/14/17 10:55 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011913 | 1 | 08/21/17 09:09 | 08/21/17 09:20 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011760 | 1 | 08/14/17 10:55 | 08/20/17 15:21 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 1 | 08/14/17 10:55 | 08/22/17 09:23 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 500 | 08/14/17 10:55 | 08/23/17 14:58 | ACG |

## B-206-40 L929901-03 Solid

Collected by: K. Springstead | Collected date/time: 08/14/17 11:20 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011914 | 1 | 08/21/17 08:53 | 08/21/17 09:08 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011760 | 1 | 08/14/17 11:20 | 08/20/17 15:43 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 1 | 08/14/17 11:20 | 08/22/17 09:44 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010895 | 25.25 | 08/14/17 11:20 | 08/23/17 14:38 | ACG |

## B-206-49 L929901-04 Solid

Collected by: K. Springstead | Collected date/time: 08/14/17 12:00 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011914 | 1 | 08/21/17 08:53 | 08/21/17 09:08 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011760 | 1 | 08/14/17 12:00 | 08/20/17 16:05 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 1 | 08/14/17 12:00 | 08/23/17 01:56 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 100 | 08/14/17 12:00 | 08/23/17 14:22 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 730 | 08/14/17 12:00 | 08/23/17 16:39 | ACG |

## B-206-52 L929901-05 Solid

Collected by: K. Springstead | Collected date/time: 08/14/17 14:15 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011914 | 1 | 08/21/17 08:53 | 08/21/17 09:08 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011760 | 1 | 08/14/17 14:15 | 08/20/17 16:28 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 1 | 08/14/17 14:15 | 08/23/17 02:16 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 25 | 08/14/17 14:15 | 08/23/17 16:20 | ACG |

## B-206-56 L929901-06 Solid

Collected by: K. Springstead | Collected date/time: 08/14/17 14:05 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011914 | 1 | 08/21/17 08:53 | 08/21/17 09:08 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011760 | 1 | 08/14/17 14:05 | 08/20/17 16:50 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1011219 | 1 | 08/14/17 14:05 | 08/19/17 01:31 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1011219 | 41.5 | 08/14/17 14:05 | 08/20/17 19:28 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1011219 | 500 | 08/14/17 14:05 | 08/22/17 03:29 | LRL |

## B-206-70 L929901-07 Solid

Collected by: K. Springstead | Collected date/time: 08/14/17 16:40 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011913 | 1 | 08/21/17 09:09 | 08/21/17 09:20 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011765 | 25.75 | 08/14/17 16:40 | 08/22/17 14:04 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1011219 | 1 | 08/14/17 16:40 | 08/19/17 01:51 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1011219 | 1 | 08/14/17 16:40 | 08/20/17 19:53 | BMB |

## B-206-80 L929901-08 Solid

Collected by: K. Springstead | Collected date/time: 08/14/17 16:30 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011914 | 1 | 08/21/17 08:53 | 08/21/17 09:08 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011765 | 25 | 08/14/17 16:30 | 08/22/17 14:25 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1011219 | 1 | 08/14/17 16:30 | 08/19/17 02:11 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1011219 | 1 | 08/14/17 16:30 | 08/20/17 20:19 | BMB |

## B-206-59 L929901-09 Solid

Collected by: K. Springstead | Collected date/time: 08/14/17 13:50 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1011914 | 1 | 08/21/17 08:53 | 08/21/17 09:08 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011765 | 1 | 08/14/17 13:50 | 08/22/17 14:47 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1011219 | 1 | 08/14/17 13:50 | 08/19/17 02:31 | ACG |

## TRIP BLANK-081417 L929901-10 GW

Collected by: K. Springstead | Collected date/time: 08/14/17 00:00 | Received date/time: 08/16/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1011763 | 1 | 08/20/17 16:07 | 08/20/17 16:07 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1010972 | 1 | 08/17/17 22:38 | 08/17/17 22:38 | BMB |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.9 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.243 | | 0.0390 | 0.115 | 1 | 08/20/2017 14:59 | WG1011760 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.1* | | | *77.0-120* | | *08/20/2017 14:59* | WG1011760 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.288 | 1.44 | 25 | 08/23/2017 01:30 | WG1010895 |
| Acrylonitrile | U | | 0.0516 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Benzene | U | | 0.00777 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Bromobenzene | U | | 0.00817 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Bromodichloromethane | U | | 0.00731 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Bromochloromethane | U | | 0.0112 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| Bromoform | U | | 0.0122 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Bromomethane | U | | 0.0386 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| n-Butylbenzene | U | | 0.00742 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| sec-Butylbenzene | U | | 0.00578 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| tert-Butylbenzene | U | | 0.00593 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Carbon disulfide | U | | 0.00635 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Carbon tetrachloride | U | | 0.00944 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Chlorobenzene | U | | 0.00610 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Chlorodibromomethane | U | | 0.0107 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Chloroethane | U | | 0.0272 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| Chloroform | U | | 0.00658 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| Chloromethane | U | | 0.0108 | 0.0719 | 25 | 08/23/2017 01:30 | WG1010895 |
| 2-Chlorotoluene | U | | 0.00865 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 4-Chlorotoluene | U | | 0.00690 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.0302 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.00987 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Dibromomethane | U | | 0.0110 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.00877 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.00688 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.00650 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.0205 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.00573 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.00762 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1-Dichloroethene | U | | 0.00872 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| cis-1,2-Dichloroethene | 0.306 | | 0.00677 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| trans-1,2-Dichloroethene | 0.00825 | J | 0.00760 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.0103 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.00911 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.00596 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.00754 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.00769 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.0223 | 0.0719 | 25 | 08/23/2017 01:30 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.00803 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Di-isopropyl ether | U | | 0.00714 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Ethylbenzene | U | | 0.00854 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Hexachloro-1,3-butadiene | U | | 0.00984 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 2-Hexanone | U | | 0.0394 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |
| n-Hexane | 0.0395 | J | 0.00834 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0727 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Isopropylbenzene | U | | 0.00700 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| p-Isopropyltoluene | U | | 0.00587 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 2-Butanone (MEK) | U | | 0.135 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Methylene Chloride | U | | 0.0288 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0541 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Methyl tert-butyl ether | 0.145 | | 0.00610 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Naphthalene | U | | 0.0288 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| n-Propylbenzene | U | | 0.00593 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Styrene | U | | 0.00673 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00760 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0105 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0105 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Tetrachloroethene | 0.0715 | | 0.00794 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Toluene | U | | 0.0124 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2,3-Trichlorobenzene | U | | 0.00880 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2,4-Trichlorobenzene | U | | 0.0112 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.00823 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.00796 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Trichloroethene | 0.00831 | J | 0.00803 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Trichlorofluoromethane | U | | 0.0110 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.0213 | 0.0719 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2,4-Trimethylbenzene | 0.0151 | J | 0.00608 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.00826 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.00765 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Vinyl acetate | U | | 0.0688 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Vinyl chloride | U | | 0.00838 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Xylenes, Total | U | | 0.0200 | 0.0863 | 25 | 08/23/2017 01:30 | WG1010895 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/23/2017 01:30* | WG1010895 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/23/2017 01:30* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *08/23/2017 01:30* | WG1010895 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.2 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.32 | | 0.0389 | 0.115 | 1 | 08/20/2017 15:21 | WG1011760 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.1* | | | *77.0-120* | | *08/20/2017 15:21* | WG1011760 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0177 | J | 0.0115 | 0.0574 | 1 | 08/22/2017 09:23 | WG1010895 |
| Acrylonitrile | U | | 0.00205 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Benzene | U | | 0.000310 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Bromobenzene | U | | 0.000326 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Bromodichloromethane | U | | 0.000291 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Bromochloromethane | U | | 0.000447 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| Bromoform | U | | 0.000486 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Bromomethane | U | | 0.00154 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| n-Butylbenzene | U | | 0.000296 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| tert-Butylbenzene | U | | 0.000236 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Carbon disulfide | 0.00174 | | 0.000253 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Carbon tetrachloride | U | | 0.000376 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Chlorobenzene | U | | 0.000243 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Chlorodibromomethane | U | | 0.000428 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Chloroethane | U | | 0.00109 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| Chloroform | U | | 0.000263 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| Chloromethane | U | | 0.000430 | 0.00287 | 1 | 08/22/2017 09:23 | WG1010895 |
| 2-Chlorotoluene | U | | 0.000345 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 4-Chlorotoluene | U | | 0.000275 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00120 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.000393 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Dibromomethane | U | | 0.000438 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.000350 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.000274 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.000259 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.000818 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.000228 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.000304 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1-Dichloroethene | 0.00192 | | 0.000348 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| cis-1,2-Dichloroethene | 12.6 | | 0.135 | 0.574 | 500 | 08/23/2017 14:58 | WG1010895 |
| trans-1,2-Dichloroethene | 0.00230 | | 0.000303 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.000411 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.000364 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.000237 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.000306 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.000892 | 0.00287 | 1 | 08/22/2017 09:23 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.000320 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Di-isopropyl ether | U | | 0.000284 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Ethylbenzene | U | | 0.000341 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Hexachloro-1,3-butadiene | U | J0 | 0.000392 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 2-Hexanone | U | | 0.00157 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |
| n-Hexane | U | | 0.000333 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00290 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Isopropylbenzene | U | | 0.000279 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| p-Isopropyltoluene | U | | 0.000234 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 2-Butanone (MEK) | U | | 0.00537 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Methylene Chloride | U | | 0.00115 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Methyl tert-butyl ether | U | | 0.000243 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Naphthalene | 0.0340 | | 0.00115 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| n-Propylbenzene | U | | 0.000236 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Styrene | U | | 0.000268 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000303 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000419 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000419 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Tetrachloroethene | 0.0522 | | 0.000317 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Toluene | U | | 0.000498 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2,3-Trichlorobenzene | U | J0 | 0.000351 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2,4-Trichlorobenzene | U | J0 | 0.000445 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.000328 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.000318 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Trichloroethene | 0.0289 | | 0.000320 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Trichlorofluoromethane | U | | 0.000438 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.000850 | 0.00287 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.000242 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.000329 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.000305 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Vinyl acetate | U | | 0.00274 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Vinyl chloride | 0.124 | | 0.000334 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Xylenes, Total | U | | 0.000801 | 0.00344 | 1 | 08/22/2017 09:23 | WG1010895 |
| *(S) Toluene-d8* | *98.4* | | | *80.0-120* | | *08/22/2017 09:23* | WG1010895 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/23/2017 14:58* | WG1010895 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *08/22/2017 09:23* | WG1010895 |
| *(S) Dibromofluoromethane* | *98.7* | | | *74.0-131* | | *08/23/2017 14:58* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/22/2017 09:23* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *97.8* | | | *64.0-132* | | *08/23/2017 14:58* | WG1010895 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.6 | | 1 | 08/21/2017 09:08 | WG1011914 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0358 | 0.106 | 1 | 08/20/2017 15:43 | WG1011760 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.6* | | | *77.0-120* | | *08/20/2017 15:43* | WG1011760 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0191 | J | 0.0106 | 0.0529 | 1 | 08/22/2017 09:44 | WG1010895 |
| Acrylonitrile | U | | 0.00189 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Benzene | U | | 0.000285 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Bromobenzene | U | | 0.000300 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Bromodichloromethane | U | | 0.000268 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Bromochloromethane | U | | 0.000412 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| Bromoform | U | | 0.000448 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Bromomethane | U | | 0.00142 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| n-Butylbenzene | U | | 0.000273 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| sec-Butylbenzene | U | | 0.000212 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| tert-Butylbenzene | U | | 0.000218 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Carbon disulfide | 0.00114 | | 0.000234 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Carbon tetrachloride | U | | 0.000347 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Chlorobenzene | U | | 0.000224 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Chlorodibromomethane | U | | 0.000394 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Chloroethane | U | | 0.00100 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| Chloroform | U | | 0.000242 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| Chloromethane | U | | 0.000396 | 0.00264 | 1 | 08/22/2017 09:44 | WG1010895 |
| 2-Chlorotoluene | U | | 0.000318 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 4-Chlorotoluene | U | | 0.000254 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00111 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.000363 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Dibromomethane | U | | 0.000404 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.000322 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.000253 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.000239 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.000754 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.000210 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.000280 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1-Dichloroethene | U | | 0.000320 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| cis-1,2-Dichloroethene | 0.00879 | J | 0.00627 | 0.0267 | 25.25 | 08/23/2017 14:38 | WG1010895 |
| trans-1,2-Dichloroethene | U | | 0.000279 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.000378 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.000335 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.000219 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.000277 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.000282 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.000822 | 0.00264 | 1 | 08/22/2017 09:44 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.000295 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Di-isopropyl ether | U | | 0.000262 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Ethylbenzene | U | | 0.000314 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Hexachloro-1,3-butadiene | U | J0 | 0.000362 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 2-Hexanone | U | | 0.00145 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |
| n-Hexane | 0.00151 | J | 0.000307 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00267 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Isopropylbenzene | U | | 0.000257 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| p-Isopropyltoluene | U | | 0.000216 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 2-Butanone (MEK) | U | | 0.00495 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Methylene Chloride | U | | 0.00106 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00199 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Methyl tert-butyl ether | U | | 0.000224 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Naphthalene | 0.00114 | J | 0.00106 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| n-Propylbenzene | U | | 0.000218 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Styrene | U | | 0.000247 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000279 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000386 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000386 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Tetrachloroethene | 0.000306 | J | 0.000292 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Toluene | U | | 0.000459 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2,3-Trichlorobenzene | U | J0 | 0.000323 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2,4-Trichlorobenzene | U | J0 | 0.000410 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.000302 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.000293 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Trichloroethene | U | | 0.000295 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Trichlorofluoromethane | U | | 0.000404 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.000783 | 0.00264 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.000223 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.000303 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.000281 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Vinyl acetate | U | | 0.00253 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Vinyl chloride | U | | 0.000308 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Xylenes, Total | U | | 0.000738 | 0.00317 | 1 | 08/22/2017 09:44 | WG1010895 |
| *(S) Toluene-d8* | *93.6* | | | *80.0-120* | | *08/23/2017 14:38* | WG1010895 |
| *(S) Toluene-d8* | *95.1* | | | *80.0-120* | | *08/22/2017 09:44* | WG1010895 |
| *(S) Dibromofluoromethane* | *98.0* | | | *74.0-131* | | *08/23/2017 14:38* | WG1010895 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *08/22/2017 09:44* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *99.0* | | | *64.0-132* | | *08/23/2017 14:38* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *99.2* | | | *64.0-132* | | *08/22/2017 09:44* | WG1010895 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.8 | | 1 | 08/21/2017 09:08 | WG1011914 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 4.54 | | 0.0386 | 0.114 | 1 | 08/20/2017 16:05 | WG1011760 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.4* | | | *77.0-120* | | *08/20/2017 16:05* | WG1011760 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0570 | 1 | 08/23/2017 01:56 | WG1012508 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Bromobenzene | U | | 0.000324 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Bromodichloromethane | U | | 0.000289 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Bromochloromethane | U | | 0.000444 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| Bromoform | U | | 0.000483 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Bromomethane | U | | 0.00153 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Carbon disulfide | 0.00390 | | 0.000252 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Carbon tetrachloride | U | | 0.000374 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Chlorodibromomethane | U | | 0.000425 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Chloroethane | U | | 0.00108 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| Chloroform | U | | 0.000261 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| Chloromethane | U | | 0.000427 | 0.00285 | 1 | 08/23/2017 01:56 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000273 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Dibromomethane | U | | 0.000435 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000272 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000812 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,1-Dichloroethene | 0.00751 | | 0.000345 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| cis-1,2-Dichloroethene | 6.41 | | 0.0268 | 0.114 | 100 | 08/23/2017 14:22 | WG1012508 |
| trans-1,2-Dichloroethene | 0.0132 | | 0.000301 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000408 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000361 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000298 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000304 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000886 | 0.00285 | 1 | 08/23/2017 01:56 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Di-isopropyl ether | U | | 0.000283 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Ethylbenzene | U | | 0.000338 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000390 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 |
| n-Hexane | 0.00815 | J | 0.000330 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00288 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00533 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Methylene Chloride | U | | 0.00114 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Naphthalene | U | | 0.00114 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000416 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000416 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Tetrachloroethene | 17.2 | | 0.229 | 0.832 | 730 | 08/23/2017 16:39 | WG1012508 |
| Toluene | U | | 0.000494 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000442 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000316 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Trichloroethene | 2.28 | | 0.0318 | 0.114 | 100 | 08/23/2017 14:22 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000435 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000844 | 0.00285 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000240 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000327 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000303 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Vinyl acetate | U | | 0.00272 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Vinyl chloride | 0.154 | | 0.000332 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Xylenes, Total | U | | 0.000795 | 0.00342 | 1 | 08/23/2017 01:56 | WG1012508 |
| *(S) Toluene-d8* | *94.2* | | | *80.0-120* | | *08/23/2017 01:56* | WG1012508 |
| *(S) Toluene-d8* | *118* | | | *80.0-120* | | *08/23/2017 14:22* | WG1012508 |
| *(S) Toluene-d8* | *115* | | | *80.0-120* | | *08/23/2017 16:39* | WG1012508 |
| *(S) Dibromofluoromethane* | *99.3* | | | *74.0-131* | | *08/23/2017 14:22* | WG1012508 |
| *(S) Dibromofluoromethane* | *99.5* | | | *74.0-131* | | *08/23/2017 16:39* | WG1012508 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/23/2017 01:56* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *97.1* | | | *64.0-132* | | *08/23/2017 01:56* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/23/2017 16:39* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/23/2017 14:22* | WG1012508 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.6 | | 1 | 08/21/2017 09:08 | WG1011914 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0370 | 0.109 | 1 | 08/20/2017 16:28 | WG1011760 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.2* | | | *77.0-120* | | *08/20/2017 16:28* | WG1011760 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0109 | 0.0546 | 1 | 08/23/2017 02:16 | WG1012508 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Benzene | U | | 0.000295 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Bromochloromethane | U | | 0.000426 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| Bromoform | U | | 0.000463 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Bromomethane | U | | 0.00146 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| n-Butylbenzene | U | | 0.000282 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Carbon disulfide | 0.000706 | J | 0.000241 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Chloroethane | U | | 0.00103 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| Chloroform | U | | 0.000250 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| Chloromethane | U | | 0.000409 | 0.00273 | 1 | 08/23/2017 02:16 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000329 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000375 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000247 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000779 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000331 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| cis-1,2-Dichloroethene | U | | 0.00642 | 0.0273 | 25 | 08/23/2017 16:20 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000391 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000292 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000849 | 0.00273 | 1 | 08/23/2017 02:16 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000305 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Di-isopropyl ether | U | | 0.000271 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 2-Hexanone | U | | 0.00150 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |
| n-Hexane | U | | 0.000317 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00511 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Methylene Chloride | U | | 0.00109 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Naphthalene | U | | 0.00109 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Styrene | U | | 0.000256 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000399 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000399 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Tetrachloroethene | 0.0483 | | 0.00753 | 0.0273 | 25 | 08/23/2017 16:20 | WG1012508 |
| Toluene | U | | 0.000474 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000424 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Trichloroethene | 0.00790 | J | 0.00762 | 0.0273 | 25 | 08/23/2017 16:20 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000417 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000809 | 0.00273 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Vinyl chloride | 0.000383 | J | 0.000318 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Xylenes, Total | U | | 0.000762 | 0.00328 | 1 | 08/23/2017 02:16 | WG1012508 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/23/2017 16:20* | WG1012508 |
| *(S) Toluene-d8* | *96.1* | | | *80.0-120* | | *08/23/2017 02:16* | WG1012508 |
| *(S) Dibromofluoromethane* | *95.8* | | | *74.0-131* | | *08/23/2017 16:20* | WG1012508 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *08/23/2017 02:16* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/23/2017 02:16* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/23/2017 16:20* | WG1012508 |

Sample Narrative:

L929901-05 WG1012508: No low level sodium bisulfite vials remaining. cis-12-DCE cannot be analyzed at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.0 | | 1 | 08/21/2017 09:08 | WG1011914 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.01 | | 0.0372 | 0.110 | 1 | 08/20/2017 16:50 | WG1011760 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.4* | | | *77.0-120* | | *08/20/2017 16:50* | WG1011760 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0110 | 0.0549 | 1 | 08/19/2017 01:31 | WG1011219 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Benzene | U | | 0.000297 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Bromobenzene | U | | 0.000312 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Bromodichloromethane | U | | 0.000279 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Bromochloromethane | U | | 0.000428 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| Bromoform | U | | 0.000466 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Bromomethane | U | J0 | 0.00147 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| n-Butylbenzene | U | | 0.000283 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| tert-Butylbenzene | U | | 0.000226 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Carbon disulfide | 0.00187 | | 0.000243 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Carbon tetrachloride | U | | 0.000360 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Chlorodibromomethane | U | | 0.000410 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Chloroethane | U | | 0.00104 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| Chloroform | U | | 0.000252 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| Chloromethane | U | | 0.000412 | 0.00275 | 1 | 08/19/2017 01:31 | WG1011219 |
| 2-Chlorotoluene | U | | 0.000331 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 4-Chlorotoluene | U | | 0.000264 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2-Dibromoethane | U | | 0.000377 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Dibromomethane | U | | 0.000420 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2-Dichlorobenzene | U | | 0.000335 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,3-Dichlorobenzene | U | | 0.000263 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,4-Dichlorobenzene | U | | 0.000248 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Dichlorodifluoromethane | U | | 0.000783 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2-Dichloroethane | U | | 0.000291 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1-Dichloroethene | 0.00103 | J | 0.000333 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| cis-1,2-Dichloroethene | 0.140 | | 0.000258 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| trans-1,2-Dichloroethene | U | | 0.000290 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2-Dichloropropane | U | | 0.000393 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1-Dichloropropene | U | | 0.000348 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,3-Dichloropropane | U | | 0.000227 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| cis-1,3-Dichloropropene | U | | 0.000288 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| trans-1,3-Dichloropropene | U | | 0.000293 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| trans-1,4-Dichloro-2-butene | U | | 0.000855 | 0.00275 | 1 | 08/19/2017 01:31 | WG1011219 |
| 2,2-Dichloropropane | U | J0 | 0.000306 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Di-isopropyl ether | U | | 0.000272 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Ethylbenzene | U | | 0.000326 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Hexachloro-1,3-butadiene | U | | 0.000376 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 2-Hexanone | U | | 0.00150 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |
| n-Hexane | U | | 0.000319 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00278 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Isopropylbenzene | U | | 0.000267 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| p-Isopropyltoluene | U | | 0.000224 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 2-Butanone (MEK) | U | | 0.00514 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Methylene Chloride | U | | 0.00110 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00207 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Naphthalene | U | | 0.00110 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| n-Propylbenzene | U | | 0.000226 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Styrene | U | | 0.000257 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000290 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000401 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1,2-Trichlorotrifluoroethane | U | J0 | 0.000401 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Tetrachloroethene | 9.95 | J4 | 0.152 | 0.549 | 500 | 08/22/2017 03:29 | WG1011219 |
| Toluene | U | | 0.000477 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2,3-Trichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2,4-Trichlorobenzene | U | | 0.000426 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1,1-Trichloroethane | U | | 0.000314 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1,2-Trichloroethane | U | | 0.000304 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Trichloroethene | 2.16 | | 0.0127 | 0.0456 | 41.5 | 08/20/2017 19:28 | WG1011219 |
| Trichlorofluoromethane | U | | 0.000420 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2,3-Trichloropropane | U | | 0.000814 | 0.00275 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2,3-Trimethylbenzene | U | | 0.000315 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,3,5-Trimethylbenzene | U | | 0.000292 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Vinyl acetate | U | | 0.00263 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Vinyl chloride | 0.000558 | J | 0.000320 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Xylenes, Total | U | | 0.000767 | 0.00330 | 1 | 08/19/2017 01:31 | WG1011219 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *08/19/2017 01:31* | WG1011219 |
| *(S) Toluene-d8* | *99.6* | | | *80.0-120* | | *08/22/2017 03:29* | WG1011219 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/20/2017 19:28* | WG1011219 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *08/19/2017 01:31* | WG1011219 |
| *(S) Dibromofluoromethane* | *92.9* | | | *74.0-131* | | *08/20/2017 19:28* | WG1011219 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/22/2017 03:29* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *08/19/2017 01:31* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *99.6* | | | *64.0-132* | | *08/20/2017 19:28* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *08/22/2017 03:29* | WG1011219 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.8 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.10 | J | 0.951 | 2.81 | 25.75 | 08/22/2017 14:04 | WG1011765 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.9* | | | *77.0-120* | | *08/22/2017 14:04* | WG1011765 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0109 | 0.0545 | 1 | 08/19/2017 01:51 | WG1011219 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Bromomethane | U | J0 | 0.00146 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Carbon disulfide | 0.000401 | J | 0.000241 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Carbon tetrachloride | U | | 0.000357 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Chlorodibromomethane | U | | 0.000406 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| Chloroform | U | | 0.000249 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| Chloromethane | U | | 0.000409 | 0.00272 | 1 | 08/19/2017 01:51 | WG1011219 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Dibromomethane | U | | 0.000416 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Dichlorodifluoromethane | U | | 0.000777 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| cis-1,2-Dichloroethene | 0.00201 | | 0.000256 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| trans-1,4-Dichloro-2-butene | U | | 0.000848 | 0.00272 | 1 | 08/19/2017 01:51 | WG1011219 |
| 2,2-Dichloropropane | U | J0 | 0.000304 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |
| n-Hexane | 0.000515 | J | 0.000316 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1,2-Trichlorotrifluoroethane | U | J0 | 0.000398 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Tetrachloroethene | U | J4 | 0.000301 | 0.00109 | 1 | 08/20/2017 19:53 | WG1011219 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2,3-Trichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Trichloroethene | U | | 0.000304 | 0.00109 | 1 | 08/20/2017 19:53 | WG1011219 |
| Trichlorofluoromethane | U | | 0.000416 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2,3-Trichloropropane | U | | 0.000807 | 0.00272 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Vinyl chloride | U | | 0.000317 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Xylenes, Total | U | | 0.000760 | 0.00327 | 1 | 08/19/2017 01:51 | WG1011219 |
| *(S) Toluene-d8* | *95.5* | | | *80.0-120* | | *08/20/2017 19:53* | WG1011219 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *08/19/2017 01:51* | WG1011219 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/19/2017 01:51* | WG1011219 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *08/20/2017 19:53* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *08/19/2017 01:51* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *98.8* | | | *64.0-132* | | *08/20/2017 19:53* | WG1011219 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.7 | | 1 | 08/21/2017 09:08 | WG1011914 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.988 | J | 0.924 | 2.73 | 25 | 08/22/2017 14:25 | WG1011765 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.6* | | | *77.0-120* | | *08/22/2017 14:25* | WG1011765 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0109 | 0.0545 | 1 | 08/19/2017 02:11 | WG1011219 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Bromomethane | U | J0 | 0.00146 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Carbon disulfide | 0.000339 | J | 0.000241 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| Chloroform | U | | 0.000250 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| Chloromethane | U | | 0.000409 | 0.00273 | 1 | 08/19/2017 02:11 | WG1011219 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Dibromomethane | U | | 0.000416 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Dichlorodifluoromethane | U | | 0.000777 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| cis-1,2-Dichloroethene | 0.000647 | J | 0.000256 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| trans-1,4-Dichloro-2-butene | U | | 0.000848 | 0.00273 | 1 | 08/19/2017 02:11 | WG1011219 |
| 2,2-Dichloropropane | U | J0 | 0.000304 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |
| n-Hexane | 0.000634 | J | 0.000316 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1,2-Trichlorotrifluoroethane | U | J0 | 0.000398 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Tetrachloroethene | 0.00283 | J4 | 0.000301 | 0.00109 | 1 | 08/20/2017 20:19 | WG1011219 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Trichloroethene | U | | 0.000304 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Trichlorofluoromethane | U | | 0.000416 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2,3-Trichloropropane | U | | 0.000808 | 0.00273 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Vinyl chloride | 0.000386 | J | 0.000317 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Xylenes, Total | U | | 0.000761 | 0.00327 | 1 | 08/19/2017 02:11 | WG1011219 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/19/2017 02:11* | WG1011219 |
| *(S) Toluene-d8* | *96.9* | | | *80.0-120* | | *08/20/2017 20:19* | WG1011219 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/20/2017 20:19* | WG1011219 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/19/2017 02:11* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/19/2017 02:11* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *08/20/2017 20:19* | WG1011219 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 96.1 | | 1 | 08/21/2017 09:08 | WG1011914 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0353 | 0.104 | 1 | 08/22/2017 14:47 | WG1011765 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.3* | | | *77.0-120* | | *08/22/2017 14:47* | WG1011765 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0104 | 0.0520 | 1 | 08/19/2017 02:31 | WG1011219 |
| Acrylonitrile | U | | 0.00186 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Benzene | U | | 0.000281 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Bromobenzene | U | | 0.000295 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Bromodichloromethane | U | | 0.000264 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Bromochloromethane | U | | 0.000406 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| Bromoform | U | | 0.000441 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Bromomethane | U | J0 | 0.00139 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| n-Butylbenzene | U | | 0.000268 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| sec-Butylbenzene | U | | 0.000209 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| tert-Butylbenzene | U | | 0.000214 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Carbon disulfide | 0.000485 | J | 0.000230 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Carbon tetrachloride | U | | 0.000341 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Chlorobenzene | U | | 0.000221 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Chlorodibromomethane | U | | 0.000388 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Chloroethane | U | | 0.000984 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| Chloroform | U | | 0.000238 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| Chloromethane | U | | 0.000390 | 0.00260 | 1 | 08/19/2017 02:31 | WG1011219 |
| 2-Chlorotoluene | U | | 0.000313 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 4-Chlorotoluene | U | | 0.000250 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00109 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2-Dibromoethane | U | | 0.000357 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Dibromomethane | U | | 0.000397 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2-Dichlorobenzene | U | | 0.000317 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,3-Dichlorobenzene | U | | 0.000249 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,4-Dichlorobenzene | U | | 0.000235 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Dichlorodifluoromethane | U | | 0.000742 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1-Dichloroethane | U | | 0.000207 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2-Dichloroethane | U | | 0.000276 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1-Dichloroethene | U | | 0.000315 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| cis-1,2-Dichloroethene | 0.00686 | | 0.000244 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| trans-1,2-Dichloroethene | U | | 0.000275 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2-Dichloropropane | U | | 0.000372 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1-Dichloropropene | U | | 0.000330 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,3-Dichloropropane | U | | 0.000215 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| cis-1,3-Dichloropropene | U | | 0.000273 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| trans-1,3-Dichloropropene | U | | 0.000278 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| trans-1,4-Dichloro-2-butene | U | | 0.000809 | 0.00260 | 1 | 08/19/2017 02:31 | WG1011219 |
| 2,2-Dichloropropane | U | J0 | 0.000290 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Di-isopropyl ether | U | | 0.000258 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Ethylbenzene | U | | 0.000309 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Hexachloro-1,3-butadiene | U | | 0.000356 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 2-Hexanone | U | | 0.00143 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |
| n-Hexane | U | | 0.000302 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00263 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Isopropylbenzene | U | | 0.000253 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| p-Isopropyltoluene | U | | 0.000212 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 2-Butanone (MEK) | U | | 0.00487 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Methylene Chloride | U | | 0.00104 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00196 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Methyl tert-butyl ether | U | | 0.000221 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Naphthalene | U | | 0.00104 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| n-Propylbenzene | U | | 0.000214 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Styrene | U | | 0.000243 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000275 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000380 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1,2-Trichlorotrifluoroethane | U | J0 | 0.000380 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Tetrachloroethene | 0.00866 | J0 J4 | 0.000287 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Toluene | U | | 0.000451 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2,3-Trichlorobenzene | U | | 0.000318 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2,4-Trichlorobenzene | U | | 0.000404 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1,1-Trichloroethane | U | | 0.000298 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1,2-Trichloroethane | U | | 0.000288 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Trichloroethene | 0.00248 | | 0.000290 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Trichlorofluoromethane | U | | 0.000397 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2,3-Trichloropropane | U | | 0.000771 | 0.00260 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2,4-Trimethylbenzene | U | | 0.000219 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2,3-Trimethylbenzene | U | | 0.000299 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,3,5-Trimethylbenzene | U | | 0.000277 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Vinyl acetate | U | | 0.00249 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Vinyl chloride | 0.000368 | J | 0.000303 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Xylenes, Total | U | | 0.000726 | 0.00312 | 1 | 08/19/2017 02:31 | WG1011219 |
| *(S) Toluene-d8* | *112* | | | *80.0-120* | | *08/19/2017 02:31* | WG1011219 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/19/2017 02:31* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *08/19/2017 02:31* | WG1011219 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 | 1 | 08/20/2017 16:07 | WG1011763 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.4* | | | *77.0-122* | | *08/20/2017 16:07* | WG1011763 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | J0 J3 | 1.05 | 25.0 | 1 | 08/17/2017 22:38 | WG1010972 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 08/17/2017 22:38 | WG1010972 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Dichlorodifluoromethane | U | J0 | 0.127 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 08/17/2017 22:38 | WG1010972 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 2-Butanone (MEK) | U | J0 | 1.28 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Styrene | U | | 0.117 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Toluene | U | | 0.412 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *08/17/2017 22:38* | WG1010972 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *08/17/2017 22:38* | WG1010972 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *80.0-120* | | *08/17/2017 22:38* | WG1010972 |

## Method Blank (MB)

(MB) R3243133-1 08/21/17 09:20

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.000600 | | | |

## L929881-04 Original Sample (OS) • Duplicate (DUP)

(OS) L929881-04 08/21/17 09:20 • (DUP) R3243133-3 08/21/17 09:20

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 81.8 | 80.8 | 1 | 1.19 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3243133-2 08/21/17 09:20

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3243129-1 08/21/17 09:08

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L930399-01 Original Sample (OS) • Duplicate (DUP)

(OS) L930399-01 08/21/17 09:08 • (DUP) R3243129-3 08/21/17 09:08

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 85.4 | 85.0 | 1 | 0.488 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3243129-2 08/21/17 09:08

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 49.9 | 99.8 | 85.0-115 | |

## Method Blank (MB)

(MB) R3243132-3 08/20/17 13:46

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C6 - C12 | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.7* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243132-1 08/20/17 12:40 • (LCSD) R3243132-2 08/20/17 13:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C6 - C12 | 5.50 | 6.19 | 5.99 | 113 | 109 | 70.0-133 | | | 3.25 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *109* | *108* | *77.0-120* | | | | |

## L930282-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L930282-05 08/21/17 02:13 • (MS) R3243132-4 08/21/17 01:07 • (MSD) R3243132-5 08/21/17 01:29

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C6 - C12 | 5.50 | 148 | 305 | 282 | 98.6 | 84.4 | 29 | 10.0-146 | | | 7.75 | 30 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *104* | *103* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3243601-3 08/22/17 13:08

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C6 - C12 | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.8* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243601-1 08/22/17 12:04 • (LCSD) R3243601-2 08/22/17 12:25

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C6 - C12 | 5.50 | 5.70 | 4.79 | 104 | 87.0 | 70.0-133 | | | 17.4 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *103* | *101* | *77.0-120* | | | | |

## L929901-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L929901-07 08/22/17 14:04 • (MS) R3243601-4 08/22/17 21:14 • (MSD) R3243601-5 08/22/17 21:35

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C6 - C12 | 5.99 | 1.10 | 156 | 153 | 101 | 98.5 | 25.75 | 10.0-146 | | | 2.01 | 30 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *102* | *101* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3243205-3 08/20/17 14:41

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.1* | | | *77.0-122* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243205-1 08/20/17 13:17 • (LCSD) R3243205-2 08/20/17 13:39

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 5950 | 6040 | 108 | 110 | 72.0-134 | | | 1.57 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *105* | *106* | *77.0-122* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3243220-3 08/22/17 00:55

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3243220-3 08/22/17 00:55

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243220-1 08/21/17 23:10 • (LCSD) R3243220-2 08/21/17 23:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.147 | 0.158 | 117 | 126 | 11.0-160 | | | 7.22 | 23 |
| Acrylonitrile | 0.125 | 0.148 | 0.160 | 118 | 128 | 61.0-143 | | | 8.08 | 20 |
| Benzene | 0.0250 | 0.0273 | 0.0275 | 109 | 110 | 71.0-124 | | | 0.860 | 20 |
| Bromobenzene | 0.0250 | 0.0280 | 0.0290 | 112 | 116 | 78.0-120 | | | 3.27 | 20 |
| Bromodichloromethane | 0.0250 | 0.0266 | 0.0267 | 106 | 107 | 75.0-120 | | | 0.430 | 20 |
| Bromochloromethane | 0.0250 | 0.0272 | 0.0274 | 109 | 110 | 80.0-121 | | | 0.550 | 20 |
| Bromoform | 0.0250 | 0.0290 | 0.0316 | 116 | 126 | 65.0-133 | | | 8.35 | 20 |
| Bromomethane | 0.0250 | 0.0253 | 0.0257 | 101 | 103 | 26.0-160 | | | 1.32 | 20 |
| n-Butylbenzene | 0.0250 | 0.0226 | 0.0234 | 90.3 | 93.8 | 73.0-126 | | | 3.72 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0255 | 0.0263 | 102 | 105 | 75.0-121 | | | 3.25 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0260 | 0.0270 | 104 | 108 | 74.0-122 | | | 3.77 | 20 |
| Carbon disulfide | 0.0250 | 0.0290 | 0.0294 | 116 | 117 | 53.0-130 | | | 1.41 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0261 | 0.0264 | 104 | 106 | 66.0-123 | | | 1.37 | 20 |
| Chlorobenzene | 0.0250 | 0.0245 | 0.0251 | 98.0 | 100 | 79.0-121 | | | 2.25 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0255 | 0.0277 | 102 | 111 | 74.0-128 | | | 8.30 | 20 |
| Chloroethane | 0.0250 | 0.0266 | 0.0272 | 106 | 109 | 51.0-147 | | | 2.18 | 20 |
| Chloroform | 0.0250 | 0.0273 | 0.0273 | 109 | 109 | 73.0-123 | | | 0.0700 | 20 |
| Chloromethane | 0.0250 | 0.0261 | 0.0265 | 104 | 106 | 51.0-138 | | | 1.53 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0270 | 0.0282 | 108 | 113 | 72.0-124 | | | 4.65 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0267 | 0.0277 | 107 | 111 | 78.0-120 | | | 3.60 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0220 | 0.0273 | 87.9 | 109 | 65.0-126 | | J3 | 21.6 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0246 | 0.0263 | 98.4 | 105 | 78.0-122 | | | 6.56 | 20 |
| Dibromomethane | 0.0250 | 0.0263 | 0.0270 | 105 | 108 | 79.0-120 | | | 2.82 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0248 | 0.0255 | 99.4 | 102 | 80.0-120 | | | 2.71 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0235 | 0.0238 | 93.8 | 95.0 | 72.0-123 | | | 1.28 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0233 | 0.0234 | 93.1 | 93.6 | 77.0-120 | | | 0.620 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0259 | 0.0269 | 104 | 108 | 68.0-126 | | | 3.68 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0233 | 0.0236 | 93.1 | 94.4 | 49.0-155 | | | 1.36 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0288 | 0.0287 | 115 | 115 | 70.0-128 | | | 0.0900 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0286 | 0.0291 | 114 | 117 | 69.0-128 | | | 1.85 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0251 | 0.0258 | 100 | 103 | 63.0-131 | | | 2.56 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0276 | 0.0279 | 110 | 111 | 74.0-123 | | | 0.980 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0266 | 0.0266 | 107 | 107 | 72.0-122 | | | 0.0100 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0277 | 0.0280 | 111 | 112 | 75.0-126 | | | 1.13 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0288 | 0.0291 | 115 | 117 | 72.0-130 | | | 1.27 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0246 | 0.0273 | 98.3 | 109 | 80.0-121 | | | 10.5 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0274 | 0.0284 | 109 | 114 | 80.0-125 | | | 3.90 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0260 | 0.0271 | 104 | 108 | 75.0-129 | | | 4.11 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0260 | 0.0262 | 104 | 105 | 60.0-129 | | | 0.970 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0290 | 0.0297 | 116 | 119 | 62.0-133 | | | 2.35 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243220-1 08/21/17 23:10 • (LCSD) R3243220-2 08/21/17 23:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0240 | 0.0240 | 95.8 | 96.2 | 77.0-120 | | | 0.360 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0210 | 0.0222 | 83.9 | 88.7 | 68.0-128 | | | 5.53 | 20 |
| 2-Hexanone | 0.125 | 0.121 | 0.140 | 96.8 | 112 | 61.0-143 | | | 14.8 | 20 |
| n-Hexane | 0.0250 | 0.0267 | 0.0270 | 107 | 108 | 57.0-125 | | | 0.980 | 20 |
| Iodomethane | 0.125 | 0.139 | 0.140 | 112 | 112 | 67.0-132 | | | 0.530 | 20 |
| Isopropylbenzene | 0.0250 | 0.0267 | 0.0278 | 107 | 111 | 75.0-120 | | | 4.27 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0249 | 0.0257 | 99.6 | 103 | 74.0-125 | | | 2.98 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.113 | 0.123 | 90.1 | 98.7 | 37.0-159 | | | 9.11 | 20 |
| Methylene Chloride | 0.0250 | 0.0225 | 0.0228 | 89.9 | 91.0 | 67.0-123 | | | 1.25 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.124 | 0.140 | 99.0 | 112 | 60.0-144 | | | 12.5 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0268 | 0.0280 | 107 | 112 | 66.0-125 | | | 4.46 | 20 |
| Naphthalene | 0.0250 | 0.0204 | 0.0232 | 81.7 | 92.6 | 64.0-125 | | | 12.5 | 20 |
| n-Propylbenzene | 0.0250 | 0.0269 | 0.0278 | 108 | 111 | 78.0-120 | | | 3.19 | 20 |
| Styrene | 0.0250 | 0.0282 | 0.0292 | 113 | 117 | 78.0-124 | | | 3.58 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0242 | 0.0244 | 96.6 | 97.7 | 74.0-124 | | | 1.17 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0264 | 0.0292 | 106 | 117 | 73.0-120 | | | 10.1 | 20 |
| Tetrachloroethene | 0.0250 | 0.0230 | 0.0238 | 91.8 | 95.1 | 70.0-127 | | | 3.53 | 20 |
| Toluene | 0.0250 | 0.0234 | 0.0243 | 93.4 | 97.1 | 77.0-120 | | | 3.85 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0273 | 0.0271 | 109 | 108 | 64.0-135 | | | 0.980 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0197 | 0.0213 | 78.8 | 85.4 | 68.0-126 | | | 8.00 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0196 | 0.0203 | 78.4 | 81.4 | 70.0-127 | | | 3.71 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0275 | 0.0276 | 110 | 110 | 69.0-125 | | | 0.410 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0235 | 0.0251 | 93.8 | 100 | 78.0-120 | | | 6.70 | 20 |
| Trichloroethene | 0.0250 | 0.0256 | 0.0265 | 102 | 106 | 79.0-120 | | | 3.60 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0249 | 0.0260 | 99.5 | 104 | 59.0-136 | | | 4.34 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0253 | 0.0281 | 101 | 112 | 73.0-124 | | | 10.3 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0249 | 0.0256 | 99.7 | 102 | 76.0-120 | | | 2.55 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0250 | 0.0262 | 99.9 | 105 | 75.0-120 | | | 4.62 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0251 | 0.0264 | 101 | 106 | 75.0-120 | | | 4.84 | 20 |
| Vinyl acetate | 0.125 | 0.138 | 0.141 | 111 | 113 | 58.0-156 | | | 1.94 | 20 |
| Vinyl chloride | 0.0250 | 0.0265 | 0.0269 | 106 | 108 | 63.0-134 | | | 1.36 | 20 |
| Xylenes, Total | 0.0750 | 0.0700 | 0.0720 | 93.3 | 96.0 | 77.0-120 | | | 2.82 | 20 |
| *(S) Toluene-d8* | | | | *103* | *105* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *111* | *109* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *105* | *111* | *64.0-132* | | | | |

## L929784-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L929784-07 08/22/17 02:20 • (MS) R3243220-4 08/22/17 10:05 • (MSD) R3243220-5 08/22/17 10:26

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.147 | ND | 6.27 | 6.73 | 171 | 184 | 25 | 10.0-160 | J5 | J5 | 7.09 | 36 |
| Acrylonitrile | 0.147 | ND | 4.07 | 4.08 | 111 | 111 | 25 | 14.0-160 | | | 0.130 | 33 |
| Benzene | 0.0293 | ND | 0.765 | 0.773 | 104 | 105 | 25 | 13.0-146 | | | 1.00 | 27 |
| Bromobenzene | 0.0293 | ND | 0.784 | 0.827 | 107 | 113 | 25 | 10.0-149 | | | 5.33 | 33 |
| Bromodichloromethane | 0.0293 | ND | 0.763 | 0.768 | 104 | 105 | 25 | 15.0-142 | | | 0.630 | 28 |
| Bromochloromethane | 0.0293 | ND | 0.745 | 0.750 | 102 | 102 | 25 | 24.0-146 | | | 0.760 | 27 |
| Bromoform | 0.0293 | ND | 0.776 | 0.813 | 106 | 111 | 25 | 10.0-147 | | | 4.58 | 31 |
| Bromomethane | 0.0293 | ND | 0.868 | 0.873 | 118 | 119 | 25 | 10.0-160 | | | 0.640 | 32 |
| n-Butylbenzene | 0.0293 | ND | 0.763 | 0.851 | 100 | 112 | 25 | 10.0-154 | | | 11.0 | 37 |
| sec-Butylbenzene | 0.0293 | ND | 0.768 | 0.818 | 104 | 110 | 25 | 10.0-151 | | | 6.32 | 36 |
| tert-Butylbenzene | 0.0293 | ND | 0.758 | 0.800 | 103 | 109 | 25 | 10.0-152 | | | 5.38 | 35 |
| Carbon disulfide | 0.0293 | ND | 0.622 | 0.614 | 84.9 | 83.8 | 25 | 10.0-141 | | | 1.30 | 30 |
| Carbon tetrachloride | 0.0293 | ND | 0.719 | 0.726 | 98.1 | 99.0 | 25 | 13.0-140 | | | 1.00 | 30 |
| Chlorobenzene | 0.0293 | ND | 0.684 | 0.695 | 93.3 | 94.9 | 25 | 10.0-149 | | | 1.65 | 31 |
| Chlorodibromomethane | 0.0293 | ND | 0.692 | 0.718 | 94.5 | 98.0 | 25 | 12.0-147 | | | 3.63 | 29 |
| Chloroethane | 0.0293 | ND | 0.683 | 0.657 | 93.3 | 89.6 | 25 | 10.0-159 | | | 3.94 | 33 |
| Chloroform | 0.0293 | ND | 0.765 | 0.767 | 104 | 105 | 25 | 18.0-148 | | | 0.290 | 28 |
| Chloromethane | 0.0293 | ND | 0.670 | 0.652 | 91.5 | 88.9 | 25 | 10.0-146 | | | 2.82 | 29 |
| 2-Chlorotoluene | 0.0293 | ND | 0.778 | 0.825 | 106 | 113 | 25 | 10.0-151 | | | 5.85 | 35 |
| 4-Chlorotoluene | 0.0293 | ND | 0.766 | 0.809 | 104 | 110 | 25 | 10.0-150 | | | 5.51 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0293 | ND | 0.730 | 0.753 | 99.6 | 103 | 25 | 10.0-149 | | | 3.09 | 34 |
| 1,2-Dibromoethane | 0.0293 | ND | 0.678 | 0.684 | 92.6 | 93.3 | 25 | 14.0-145 | | | 0.770 | 28 |
| Dibromomethane | 0.0293 | ND | 0.728 | 0.736 | 99.4 | 100 | 25 | 18.0-144 | | | 1.04 | 27 |
| 1,2-Dichlorobenzene | 0.0293 | ND | 0.752 | 0.794 | 103 | 108 | 25 | 10.0-153 | | | 5.45 | 34 |
| 1,3-Dichlorobenzene | 0.0293 | ND | 0.719 | 0.762 | 98.1 | 104 | 25 | 10.0-150 | | | 5.83 | 35 |
| 1,4-Dichlorobenzene | 0.0293 | ND | 0.709 | 0.766 | 96.8 | 105 | 25 | 10.0-148 | | | 7.71 | 34 |
| trans-1,4-Dichloro-2-butene | 0.0293 | ND | 0.822 | 0.905 | 112 | 123 | 25 | 10.0-160 | | | 9.68 | 40 |
| Dichlorodifluoromethane | 0.0293 | ND | 0.591 | 0.600 | 80.6 | 81.9 | 25 | 10.0-160 | | | 1.61 | 30 |
| 1,1-Dichloroethane | 0.0293 | ND | 0.803 | 0.795 | 110 | 108 | 25 | 19.0-148 | | | 1.07 | 28 |
| 1,2-Dichloroethane | 0.0293 | ND | 0.789 | 0.803 | 108 | 110 | 25 | 17.0-147 | | | 1.83 | 27 |
| 1,1-Dichloroethene | 0.0293 | ND | 0.670 | 0.662 | 91.5 | 90.3 | 25 | 10.0-150 | | | 1.30 | 31 |
| cis-1,2-Dichloroethene | 0.0293 | ND | 0.765 | 0.747 | 104 | 102 | 25 | 16.0-145 | | | 2.43 | 28 |
| trans-1,2-Dichloroethene | 0.0293 | ND | 0.691 | 0.690 | 94.3 | 94.2 | 25 | 11.0-142 | | | 0.120 | 29 |
| 1,2-Dichloropropane | 0.0293 | ND | 0.791 | 0.804 | 108 | 110 | 25 | 17.0-148 | | | 1.63 | 28 |
| 1,1-Dichloropropene | 0.0293 | ND | 0.751 | 0.748 | 103 | 102 | 25 | 10.0-150 | | | 0.430 | 30 |
| 1,3-Dichloropropane | 0.0293 | ND | 0.698 | 0.717 | 95.2 | 97.8 | 25 | 16.0-148 | | | 2.62 | 27 |
| cis-1,3-Dichloropropene | 0.0293 | ND | 0.707 | 0.726 | 96.4 | 99.1 | 25 | 13.0-150 | | | 2.73 | 28 |
| trans-1,3-Dichloropropene | 0.0293 | ND | 0.709 | 0.724 | 96.7 | 98.8 | 25 | 10.0-152 | | | 2.14 | 29 |
| 2,2-Dichloropropane | 0.0293 | ND | 0.682 | 0.665 | 93.0 | 90.8 | 25 | 16.0-143 | | | 2.42 | 30 |

## L929784-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L929784-07 08/22/17 02:20 • (MS) R3243220-4 08/22/17 10:05 • (MSD) R3243220-5 08/22/17 10:26

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Di-isopropyl ether | 0.0293 | ND | 0.862 | 0.856 | 118 | 117 | 25 | 16.0-149 | | | 0.700 | 28 |
| Ethylbenzene | 0.0293 | ND | 0.688 | 0.700 | 90.6 | 92.2 | 25 | 10.0-147 | | | 1.67 | 31 |
| Hexachloro-1,3-butadiene | 0.0293 | ND | 0.734 | 0.778 | 100 | 106 | 25 | 10.0-154 | | | 5.73 | 40 |
| 2-Hexanone | 0.147 | ND | 3.86 | 4.02 | 105 | 110 | 25 | 12.0-158 | | | 4.10 | 30 |
| n-Hexane | 0.0293 | ND | 0.680 | 0.689 | 89.4 | 90.6 | 25 | 10.0-140 | | | 1.34 | 34 |
| Iodomethane | 0.147 | ND | 3.43 | 3.39 | 93.7 | 92.5 | 25 | 10.0-157 | | | 1.21 | 34 |
| Isopropylbenzene | 0.0293 | ND | 0.768 | 0.819 | 104 | 111 | 25 | 10.0-147 | | | 6.43 | 33 |
| p-Isopropyltoluene | 0.0293 | ND | 0.757 | 0.821 | 102 | 111 | 25 | 10.0-156 | | | 8.06 | 37 |
| 2-Butanone (MEK) | 0.147 | ND | 4.04 | 4.18 | 110 | 114 | 25 | 10.0-160 | | | 3.40 | 33 |
| Methylene Chloride | 0.0293 | ND | 0.587 | 0.571 | 80.1 | 77.9 | 25 | 16.0-139 | | | 2.72 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.147 | ND | 3.60 | 3.61 | 98.2 | 98.4 | 25 | 12.0-160 | | | 0.290 | 32 |
| Methyl tert-butyl ether | 0.0293 | 0.0458 | 0.806 | 0.792 | 104 | 102 | 25 | 21.0-145 | | | 1.69 | 29 |
| Naphthalene | 0.0293 | ND | 0.827 | 0.884 | 99.3 | 107 | 25 | 10.0-153 | | | 6.67 | 36 |
| n-Propylbenzene | 0.0293 | 0.0414 | 0.816 | 0.871 | 106 | 113 | 25 | 10.0-151 | | | 6.49 | 34 |
| Styrene | 0.0293 | ND | 0.757 | 0.789 | 103 | 108 | 25 | 10.0-155 | | | 4.08 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0293 | ND | 0.698 | 0.680 | 95.2 | 92.8 | 25 | 10.0-147 | | | 2.55 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0293 | ND | 0.751 | 0.783 | 103 | 107 | 25 | 10.0-155 | | | 4.08 | 31 |
| Tetrachloroethene | 0.0293 | ND | 0.635 | 0.649 | 86.6 | 88.6 | 25 | 10.0-144 | | | 2.33 | 32 |
| Toluene | 0.0293 | ND | 0.655 | 0.674 | 89.4 | 92.0 | 25 | 10.0-144 | | | 2.82 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0293 | ND | 0.722 | 0.737 | 98.5 | 101 | 25 | 10.0-153 | | | 2.06 | 33 |
| 1,2,3-Trichlorobenzene | 0.0293 | ND | 0.740 | 0.791 | 101 | 108 | 25 | 10.0-153 | | | 6.67 | 40 |
| 1,2,4-Trichlorobenzene | 0.0293 | ND | 0.702 | 0.794 | 95.7 | 108 | 25 | 10.0-156 | | | 12.4 | 40 |
| 1,1,1-Trichloroethane | 0.0293 | ND | 0.766 | 0.761 | 105 | 104 | 25 | 18.0-145 | | | 0.730 | 29 |
| 1,1,2-Trichloroethane | 0.0293 | ND | 0.674 | 0.685 | 91.9 | 93.4 | 25 | 12.0-151 | | | 1.65 | 28 |
| Trichloroethene | 0.0293 | ND | 0.695 | 0.710 | 94.8 | 96.9 | 25 | 11.0-148 | | | 2.14 | 29 |
| Trichlorofluoromethane | 0.0293 | ND | 0.825 | 0.809 | 113 | 110 | 25 | 10.0-157 | | | 2.03 | 34 |
| 1,2,3-Trichloropropane | 0.0293 | ND | 0.719 | 0.716 | 98.2 | 97.7 | 25 | 10.0-154 | | | 0.460 | 32 |
| 1,2,3-Trimethylbenzene | 0.0293 | 0.121 | 0.865 | 0.918 | 102 | 109 | 25 | 10.0-150 | | | 5.99 | 33 |
| 1,2,4-Trimethylbenzene | 0.0293 | 0.411 | 1.11 | 1.21 | 95.1 | 110 | 25 | 10.0-151 | | | 9.13 | 34 |
| 1,3,5-Trimethylbenzene | 0.0293 | 0.0792 | 0.819 | 0.879 | 101 | 109 | 25 | 10.0-150 | | | 7.10 | 33 |
| Vinyl acetate | 0.147 | ND | 3.77 | 3.55 | 103 | 96.8 | 25 | 10.0-160 | | | 6.10 | 40 |
| Vinyl chloride | 0.0293 | ND | 0.662 | 0.671 | 90.3 | 91.5 | 25 | 10.0-150 | | | 1.30 | 29 |
| Xylenes, Total | 0.0879 | ND | 2.19 | 2.23 | 99.6 | 101 | 25 | 10.0-150 | | | 1.75 | 31 |
| *(S) Toluene-d8* | | | | | *99.7* | *101* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *108* | *104* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *103* | *104* | | *64.0-132* | | | | |

**Sample Narrative:**

OS: Target compounds too high to run at a lower dilution.

## Method Blank (MB)

(MB) R3242760-3 08/19/17 00:33

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3242760-3 08/19/17 00:33

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *117* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3242760-1 08/18/17 23:33 • (LCSD) R3242760-2 08/18/17 23:53

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.110 | 0.105 | 88.4 | 83.7 | 11.0-160 | | | 5.38 | 23 |
| Acrylonitrile | 0.125 | 0.105 | 0.0988 | 84.3 | 79.0 | 61.0-143 | | | 6.41 | 20 |
| Benzene | 0.0250 | 0.0245 | 0.0236 | 98.0 | 94.3 | 71.0-124 | | | 3.88 | 20 |
| Bromobenzene | 0.0250 | 0.0268 | 0.0251 | 107 | 100 | 78.0-120 | | | 6.77 | 20 |
| Bromodichloromethane | 0.0250 | 0.0255 | 0.0242 | 102 | 97.0 | 75.0-120 | | | 5.10 | 20 |
| Bromochloromethane | 0.0250 | 0.0280 | 0.0272 | 112 | 109 | 80.0-121 | | | 2.95 | 20 |
| Bromoform | 0.0250 | 0.0282 | 0.0260 | 113 | 104 | 65.0-133 | | | 8.14 | 20 |
| Bromomethane | 0.0250 | 0.0194 | 0.0192 | 77.7 | 76.8 | 26.0-160 | | | 1.21 | 20 |
| n-Butylbenzene | 0.0250 | 0.0264 | 0.0250 | 106 | 100 | 73.0-126 | | | 5.38 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0278 | 0.0265 | 111 | 106 | 75.0-121 | | | 4.74 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0277 | 0.0258 | 111 | 103 | 74.0-122 | | | 7.31 | 20 |
| Carbon disulfide | 0.0250 | 0.0235 | 0.0229 | 94.0 | 91.5 | 53.0-130 | | | 2.68 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0220 | 0.0214 | 88.0 | 85.7 | 66.0-123 | | | 2.55 | 20 |
| Chlorobenzene | 0.0250 | 0.0289 | 0.0277 | 116 | 111 | 79.0-121 | | | 4.30 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0277 | 0.0259 | 111 | 104 | 74.0-128 | | | 6.76 | 20 |
| Chloroethane | 0.0250 | 0.0217 | 0.0205 | 86.8 | 82.2 | 51.0-147 | | | 5.44 | 20 |
| Chloroform | 0.0250 | 0.0245 | 0.0237 | 98.1 | 94.6 | 73.0-123 | | | 3.62 | 20 |
| Chloromethane | 0.0250 | 0.0225 | 0.0218 | 89.8 | 87.1 | 51.0-138 | | | 3.03 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0272 | 0.0257 | 109 | 103 | 72.0-124 | | | 5.84 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0271 | 0.0253 | 108 | 101 | 78.0-120 | | | 6.87 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0243 | 0.0221 | 97.3 | 88.4 | 65.0-126 | | | 9.62 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0298 | 0.0286 | 119 | 114 | 78.0-122 | | | 4.26 | 20 |
| Dibromomethane | 0.0250 | 0.0237 | 0.0227 | 94.9 | 90.8 | 79.0-120 | | | 4.44 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0266 | 0.0249 | 107 | 99.5 | 80.0-120 | | | 6.84 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0277 | 0.0258 | 111 | 103 | 72.0-123 | | | 6.97 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0278 | 0.0262 | 111 | 105 | 77.0-120 | | | 6.16 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0209 | 0.0196 | 83.7 | 78.4 | 68.0-126 | | | 6.54 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0215 | 0.0214 | 86.1 | 85.8 | 49.0-155 | | | 0.360 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0253 | 0.0245 | 101 | 97.9 | 70.0-128 | | | 3.24 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0232 | 0.0220 | 92.7 | 87.8 | 69.0-128 | | | 5.39 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0226 | 0.0212 | 90.5 | 84.9 | 63.0-131 | | | 6.42 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0260 | 0.0252 | 104 | 101 | 74.0-123 | | | 3.14 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0276 | 0.0261 | 111 | 104 | 72.0-122 | | | 5.71 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0250 | 0.0241 | 99.9 | 96.3 | 75.0-126 | | | 3.62 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0242 | 0.0237 | 97.0 | 94.7 | 72.0-130 | | | 2.39 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0278 | 0.0266 | 111 | 106 | 80.0-121 | | | 4.37 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0284 | 0.0273 | 114 | 109 | 80.0-125 | | | 4.05 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0279 | 0.0267 | 111 | 107 | 75.0-129 | | | 4.13 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0187 | 0.0191 | 74.9 | 76.4 | 60.0-129 | | | 1.94 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0231 | 0.0221 | 92.3 | 88.6 | 62.0-133 | | | 4.09 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3242760-1 08/18/17 23:33 • (LCSD) R3242760-2 08/18/17 23:53

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0289 | 0.0283 | 115 | 113 | 77.0-120 | | | 1.99 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0284 | 0.0281 | 114 | 112 | 68.0-128 | | | 1.08 | 20 |
| 2-Hexanone | 0.125 | 0.127 | 0.121 | 102 | 97.1 | 61.0-143 | | | 4.47 | 20 |
| n-Hexane | 0.0250 | 0.0234 | 0.0232 | 93.7 | 93.0 | 57.0-125 | | | 0.810 | 20 |
| Iodomethane | 0.125 | 0.119 | 0.116 | 95.2 | 92.5 | 67.0-132 | | | 2.89 | 20 |
| Isopropylbenzene | 0.0250 | 0.0276 | 0.0254 | 110 | 102 | 75.0-120 | | | 8.05 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0285 | 0.0266 | 114 | 106 | 74.0-125 | | | 7.02 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.111 | 0.106 | 88.5 | 84.4 | 37.0-159 | | | 4.71 | 20 |
| Methylene Chloride | 0.0250 | 0.0246 | 0.0236 | 98.5 | 94.5 | 67.0-123 | | | 4.16 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.110 | 0.105 | 88.2 | 83.7 | 60.0-144 | | | 5.32 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0196 | 0.0197 | 78.5 | 78.6 | 66.0-125 | | | 0.220 | 20 |
| Naphthalene | 0.0250 | 0.0240 | 0.0233 | 96.1 | 93.1 | 64.0-125 | | | 3.12 | 20 |
| n-Propylbenzene | 0.0250 | 0.0278 | 0.0256 | 111 | 102 | 78.0-120 | | | 8.25 | 20 |
| Styrene | 0.0250 | 0.0273 | 0.0244 | 109 | 97.5 | 78.0-124 | | | 11.2 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0265 | 0.0260 | 106 | 104 | 74.0-124 | | | 1.96 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0245 | 0.0220 | 97.8 | 88.0 | 73.0-120 | | | 10.6 | 20 |
| Tetrachloroethene | 0.0250 | 0.0320 | 0.0313 | 128 | 125 | 70.0-127 | J4 | | 2.39 | 20 |
| Toluene | 0.0250 | 0.0276 | 0.0271 | 110 | 108 | 77.0-120 | | | 1.95 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0208 | 0.0203 | 83.3 | 81.0 | 64.0-135 | | | 2.73 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0280 | 0.0268 | 112 | 107 | 68.0-126 | | | 4.33 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0268 | 0.0257 | 107 | 103 | 70.0-127 | | | 4.02 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0233 | 0.0221 | 93.3 | 88.4 | 69.0-125 | | | 5.36 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0272 | 0.0260 | 109 | 104 | 78.0-120 | | | 4.42 | 20 |
| Trichloroethene | 0.0250 | 0.0266 | 0.0258 | 106 | 103 | 79.0-120 | | | 2.87 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0215 | 0.0211 | 86.1 | 84.6 | 59.0-136 | | | 1.79 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0243 | 0.0223 | 97.2 | 89.0 | 73.0-124 | | | 8.75 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0256 | 0.0244 | 102 | 97.7 | 76.0-120 | | | 4.74 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0264 | 0.0248 | 106 | 99.2 | 75.0-120 | | | 6.34 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0275 | 0.0260 | 110 | 104 | 75.0-120 | | | 5.78 | 20 |
| Vinyl acetate | 0.125 | 0.118 | 0.109 | 94.2 | 87.3 | 58.0-156 | | | 7.55 | 20 |
| Vinyl chloride | 0.0250 | 0.0227 | 0.0219 | 90.9 | 87.4 | 63.0-134 | | | 3.90 | 20 |
| Xylenes, Total | 0.0750 | 0.0868 | 0.0837 | 116 | 112 | 77.0-120 | | | 3.64 | 20 |
| *(S) Toluene-d8* | | | | *116* | *117* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *102* | *99.7* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *105* | *102* | *64.0-132* | | | | |

## L930246-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L930246-01 08/19/17 05:48 • (MS) R3242760-4 08/19/17 07:46 • (MSD) R3242760-5 08/19/17 08:06

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | ND | 1.88 | 2.09 | 60.0 | 67.0 | 25 | 10.0-160 | | | 10.9 | 36 |
| Acrylonitrile | 0.125 | ND | 2.32 | 2.18 | 74.1 | 69.9 | 25 | 14.0-160 | | | 5.86 | 33 |
| Benzene | 0.0250 | ND | 0.508 | 0.488 | 81.3 | 78.0 | 25 | 13.0-146 | | | 4.15 | 27 |
| Bromobenzene | 0.0250 | ND | 0.533 | 0.517 | 85.3 | 82.8 | 25 | 10.0-149 | | | 2.99 | 33 |
| Bromodichloromethane | 0.0250 | ND | 0.522 | 0.509 | 83.5 | 81.4 | 25 | 15.0-142 | | | 2.63 | 28 |
| Bromochloromethane | 0.0250 | ND | 0.580 | 0.546 | 92.8 | 87.4 | 25 | 24.0-146 | | | 5.98 | 27 |
| Bromoform | 0.0250 | ND | 0.579 | 0.579 | 92.6 | 92.6 | 25 | 10.0-147 | | | 0.000 | 31 |
| Bromomethane | 0.0250 | ND | 0.270 | 0.244 | 43.2 | 39.0 | 25 | 10.0-160 | | | 10.2 | 32 |
| n-Butylbenzene | 0.0250 | 0.0986 | 0.606 | 0.623 | 81.2 | 83.9 | 25 | 10.0-154 | | | 2.72 | 37 |
| sec-Butylbenzene | 0.0250 | 0.0744 | 0.630 | 0.644 | 88.9 | 91.2 | 25 | 10.0-151 | | | 2.25 | 36 |
| tert-Butylbenzene | 0.0250 | ND | 0.599 | 0.597 | 92.8 | 92.5 | 25 | 10.0-152 | | | 0.350 | 35 |
| Carbon disulfide | 0.0250 | ND | 0.472 | 0.450 | 75.5 | 72.1 | 25 | 10.0-141 | | | 4.62 | 30 |
| Carbon tetrachloride | 0.0250 | ND | 0.437 | 0.424 | 70.0 | 67.9 | 25 | 13.0-140 | | | 3.07 | 30 |
| Chlorobenzene | 0.0250 | 0.0365 | 0.592 | 0.537 | 88.9 | 80.1 | 25 | 10.0-149 | | | 9.84 | 31 |
| Chlorodibromomethane | 0.0250 | ND | 0.509 | 0.486 | 81.4 | 77.7 | 25 | 12.0-147 | | | 4.64 | 29 |
| Chloroethane | 0.0250 | ND | 0.136 | 0.127 | 21.8 | 20.3 | 25 | 10.0-159 | | | 7.05 | 33 |
| Chloroform | 0.0250 | ND | 0.521 | 0.480 | 82.3 | 75.7 | 25 | 18.0-148 | | | 8.24 | 28 |
| Chloromethane | 0.0250 | ND | 0.472 | 0.432 | 75.5 | 69.1 | 25 | 10.0-146 | | | 8.86 | 29 |
| 2-Chlorotoluene | 0.0250 | ND | 0.585 | 0.571 | 91.7 | 89.6 | 25 | 10.0-151 | | | 2.26 | 35 |
| 4-Chlorotoluene | 0.0250 | 0.0545 | 0.580 | 0.567 | 84.1 | 82.0 | 25 | 10.0-150 | | | 2.26 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | ND | 0.530 | 0.547 | 84.8 | 87.6 | 25 | 10.0-149 | | | 3.15 | 34 |
| 1,2-Dibromoethane | 0.0250 | ND | 0.578 | 0.532 | 90.6 | 83.2 | 25 | 14.0-145 | | | 8.31 | 28 |
| Dibromomethane | 0.0250 | ND | 0.504 | 0.502 | 78.3 | 78.0 | 25 | 18.0-144 | | | 0.440 | 27 |
| 1,2-Dichlorobenzene | 0.0250 | ND | 0.592 | 0.572 | 92.4 | 89.1 | 25 | 10.0-153 | | | 3.48 | 34 |
| 1,3-Dichlorobenzene | 0.0250 | ND | 0.587 | 0.570 | 94.0 | 91.3 | 25 | 10.0-150 | | | 2.91 | 35 |
| 1,4-Dichlorobenzene | 0.0250 | ND | 0.609 | 0.584 | 95.3 | 91.2 | 25 | 10.0-148 | | | 4.22 | 34 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.348 | 0.615 | 0.722 | 42.7 | 59.8 | 25 | 10.0-160 | | | 15.9 | 40 |
| Dichlorodifluoromethane | 0.0250 | ND | 0.497 | 0.474 | 79.5 | 75.8 | 25 | 10.0-160 | | | 4.72 | 30 |
| 1,1-Dichloroethane | 0.0250 | ND | 0.533 | 0.500 | 85.3 | 80.0 | 25 | 19.0-148 | | | 6.43 | 28 |
| 1,2-Dichloroethane | 0.0250 | ND | 0.494 | 0.470 | 79.0 | 75.2 | 25 | 17.0-147 | | | 4.92 | 27 |
| 1,1-Dichloroethene | 0.0250 | ND | 0.500 | 0.479 | 80.0 | 76.6 | 25 | 10.0-150 | | | 4.26 | 31 |
| cis-1,2-Dichloroethene | 0.0250 | ND | 0.537 | 0.502 | 85.9 | 80.4 | 25 | 16.0-145 | | | 6.60 | 28 |
| trans-1,2-Dichloroethene | 0.0250 | ND | 0.531 | 0.508 | 85.0 | 81.2 | 25 | 11.0-142 | | | 4.56 | 29 |
| 1,2-Dichloropropane | 0.0250 | ND | 0.524 | 0.524 | 83.8 | 83.8 | 25 | 17.0-148 | | | 0.0200 | 28 |
| 1,1-Dichloropropene | 0.0250 | ND | 0.496 | 0.477 | 79.3 | 76.3 | 25 | 10.0-150 | | | 3.97 | 30 |
| 1,3-Dichloropropane | 0.0250 | ND | 0.541 | 0.506 | 86.6 | 81.0 | 25 | 16.0-148 | | | 6.66 | 27 |
| cis-1,3-Dichloropropene | 0.0250 | ND | 0.544 | 0.506 | 87.0 | 81.0 | 25 | 13.0-150 | | | 7.16 | 28 |
| trans-1,3-Dichloropropene | 0.0250 | ND | 0.527 | 0.490 | 84.3 | 78.4 | 25 | 10.0-152 | | | 7.20 | 29 |
| 2,2-Dichloropropane | 0.0250 | ND | 0.362 | 0.327 | 57.9 | 52.3 | 25 | 16.0-143 | | | 10.1 | 30 |
| Di-isopropyl ether | 0.0250 | ND | 0.489 | 0.458 | 78.2 | 73.3 | 25 | 16.0-149 | | | 6.48 | 28 |

## L930246-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L930246-01 08/19/17 05:48 • (MS) R3242760-4 08/19/17 07:46 • (MSD) R3242760-5 08/19/17 08:06

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | ND | 0.558 | 0.513 | 89.3 | 82.1 | 25 | 10.0-147 | | | 8.47 | 31 |
| Hexachloro-1,3-butadiene | 0.0250 | ND | 0.482 | 0.488 | 77.1 | 78.1 | 25 | 10.0-154 | | | 1.29 | 40 |
| 2-Hexanone | 0.125 | ND | 2.15 | 2.16 | 68.7 | 69.1 | 25 | 12.0-158 | | | 0.540 | 30 |
| n-Hexane | 0.0250 | ND | 0.440 | 0.448 | 67.8 | 69.0 | 25 | 10.0-140 | | | 1.74 | 34 |
| Iodomethane | 0.125 | ND | 2.67 | 2.52 | 85.5 | 80.5 | 25 | 10.0-157 | | | 6.06 | 34 |
| Isopropylbenzene | 0.0250 | ND | 0.604 | 0.584 | 94.2 | 91.1 | 25 | 10.0-147 | | | 3.33 | 33 |
| p-Isopropyltoluene | 0.0250 | 0.0262 | 0.597 | 0.594 | 91.4 | 90.9 | 25 | 10.0-156 | | | 0.500 | 37 |
| 2-Butanone (MEK) | 0.125 | ND | 2.16 | 2.25 | 62.2 | 65.3 | 25 | 10.0-160 | | | 4.33 | 33 |
| Methylene Chloride | 0.0250 | ND | 0.504 | 0.451 | 80.6 | 72.1 | 25 | 16.0-139 | | | 11.0 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.847 | 2.00 | 1.87 | 37.0 | 32.7 | 25 | 12.0-160 | | | 6.90 | 32 |
| Methyl tert-butyl ether | 0.0250 | 0.0870 | 0.430 | 0.405 | 54.9 | 50.9 | 25 | 21.0-145 | | | 5.97 | 29 |
| Naphthalene | 0.0250 | ND | 0.573 | 0.573 | 86.9 | 86.8 | 25 | 10.0-153 | | | 0.0600 | 36 |
| n-Propylbenzene | 0.0250 | ND | 0.579 | 0.567 | 91.4 | 89.5 | 25 | 10.0-151 | | | 2.06 | 34 |
| Styrene | 0.0250 | ND | 0.626 | 0.624 | 100 | 99.8 | 25 | 10.0-155 | | | 0.390 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | ND | 0.513 | 0.467 | 82.1 | 74.7 | 25 | 10.0-147 | | | 9.52 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.329 | 0.719 | 0.752 | 62.4 | 67.7 | 25 | 10.0-155 | | | 4.48 | 31 |
| Tetrachloroethene | 0.0250 | ND | 0.589 | 0.561 | 94.2 | 89.7 | 25 | 10.0-144 | | | 4.89 | 32 |
| Toluene | 0.0250 | ND | 0.526 | 0.499 | 84.2 | 79.9 | 25 | 10.0-144 | | | 5.25 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | ND | 0.481 | 0.462 | 76.9 | 74.0 | 25 | 10.0-153 | | | 3.84 | 33 |
| 1,2,3-Trichlorobenzene | 0.0250 | ND | 0.573 | 0.551 | 91.7 | 88.1 | 25 | 10.0-153 | | | 3.96 | 40 |
| 1,2,4-Trichlorobenzene | 0.0250 | ND | 0.550 | 0.536 | 88.0 | 85.8 | 25 | 10.0-156 | | | 2.56 | 40 |
| 1,1,1-Trichloroethane | 0.0250 | ND | 0.469 | 0.441 | 75.1 | 70.6 | 25 | 18.0-145 | | | 6.11 | 29 |
| 1,1,2-Trichloroethane | 0.0250 | 0.261 | 0.690 | 0.683 | 68.7 | 67.6 | 25 | 12.0-151 | | | 1.03 | 28 |
| Trichloroethene | 0.0250 | ND | 0.545 | 0.539 | 87.3 | 86.2 | 25 | 11.0-148 | | | 1.23 | 29 |
| Trichlorofluoromethane | 0.0250 | ND | 0.406 | 0.251 | 65.0 | 40.1 | 25 | 10.0-157 | | J3 | 47.4 | 34 |
| 1,2,3-Trichloropropane | 0.0250 | 0.119 | 0.550 | 0.553 | 69.0 | 69.5 | 25 | 10.0-154 | | | 0.610 | 32 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.201 | 0.737 | 0.733 | 85.7 | 85.0 | 25 | 10.0-150 | | | 0.570 | 33 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.181 | 0.724 | 0.726 | 87.0 | 87.2 | 25 | 10.0-151 | | | 0.250 | 34 |
| 1,3,5-Trimethylbenzene | 0.0250 | ND | 0.583 | 0.566 | 93.3 | 90.5 | 25 | 10.0-150 | | | 2.98 | 33 |
| Vinyl acetate | 0.125 | ND | 1.98 | 1.64 | 63.3 | 52.4 | 25 | 10.0-160 | | | 18.7 | 40 |
| Vinyl chloride | 0.0250 | ND | 0.465 | 0.444 | 74.3 | 71.0 | 25 | 10.0-150 | | | 4.62 | 29 |
| Xylenes, Total | 0.0750 | ND | 1.69 | 1.56 | 90.1 | 83.3 | 25 | 10.0-150 | | | 7.87 | 31 |
| *(S) Toluene-d8* | | | | | *106* | *104* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *99.0* | *95.0* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *119* | *122* | | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3243686-4 08/23/17 01:35

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3243686-4 08/23/17 01:35

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | 0.00316 | J | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *97.2* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *95.5* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243686-1 08/22/17 22:27 • (LCSD) R3243686-2 08/23/17 00:00

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.103 | 0.113 | 82.6 | 90.0 | 11.0-160 | | | 8.64 | 23 |
| Acrylonitrile | 0.125 | 0.122 | 0.114 | 97.2 | 91.4 | 61.0-143 | | | 6.22 | 20 |
| Benzene | 0.0250 | 0.0243 | 0.0236 | 97.2 | 94.4 | 71.0-124 | | | 2.88 | 20 |
| Bromobenzene | 0.0250 | 0.0234 | 0.0230 | 93.7 | 91.8 | 78.0-120 | | | 1.99 | 20 |
| Bromodichloromethane | 0.0250 | 0.0236 | 0.0230 | 94.5 | 92.0 | 75.0-120 | | | 2.72 | 20 |
| Bromochloromethane | 0.0250 | 0.0250 | 0.0236 | 99.9 | 94.4 | 80.0-121 | | | 5.59 | 20 |
| Bromoform | 0.0250 | 0.0234 | 0.0224 | 93.6 | 89.4 | 65.0-133 | | | 4.56 | 20 |
| Bromomethane | 0.0250 | 0.0267 | 0.0269 | 107 | 108 | 26.0-160 | | | 0.990 | 20 |
| n-Butylbenzene | 0.0250 | 0.0219 | 0.0247 | 87.7 | 98.9 | 73.0-126 | | | 12.0 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0230 | 0.0233 | 91.9 | 93.3 | 75.0-121 | | | 1.43 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0234 | 0.0231 | 93.7 | 92.3 | 74.0-122 | | | 1.48 | 20 |
| Carbon disulfide | 0.0250 | 0.0242 | 0.0242 | 96.9 | 96.8 | 53.0-130 | | | 0.0500 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0226 | 0.0231 | 90.5 | 92.3 | 66.0-123 | | | 1.99 | 20 |
| Chlorobenzene | 0.0250 | 0.0245 | 0.0239 | 98.2 | 95.7 | 79.0-121 | | | 2.56 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0235 | 0.0230 | 93.8 | 92.0 | 74.0-128 | | | 2.00 | 20 |
| Chloroethane | 0.0250 | 0.0267 | 0.0268 | 107 | 107 | 51.0-147 | | | 0.280 | 20 |
| Chloroform | 0.0250 | 0.0241 | 0.0236 | 96.6 | 94.3 | 73.0-123 | | | 2.39 | 20 |
| Chloromethane | 0.0250 | 0.0238 | 0.0236 | 95.2 | 94.4 | 51.0-138 | | | 0.810 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0234 | 0.0235 | 93.6 | 94.0 | 72.0-124 | | | 0.470 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0222 | 0.0230 | 88.7 | 91.8 | 78.0-120 | | | 3.50 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0250 | 0.0250 | 100 | 100 | 65.0-126 | | | 0.0600 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0256 | 0.0233 | 102 | 93.2 | 78.0-122 | | | 9.27 | 20 |
| Dibromomethane | 0.0250 | 0.0251 | 0.0232 | 100 | 92.9 | 79.0-120 | | | 7.80 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0243 | 0.0243 | 97.2 | 97.3 | 80.0-120 | | | 0.120 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0235 | 0.0250 | 94.0 | 100 | 72.0-123 | | | 6.22 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0226 | 0.0237 | 90.4 | 94.8 | 77.0-120 | | | 4.68 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0250 | 0.0264 | 100 | 106 | 68.0-126 | | | 5.31 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0233 | 0.0229 | 93.0 | 91.7 | 49.0-155 | | | 1.47 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0248 | 0.0243 | 99.1 | 97.2 | 70.0-128 | | | 1.95 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0259 | 0.0244 | 103 | 97.6 | 69.0-128 | | | 5.88 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0234 | 0.0237 | 93.8 | 94.6 | 63.0-131 | | | 0.950 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0230 | 0.0218 | 92.2 | 87.1 | 74.0-123 | | | 5.64 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0222 | 0.0224 | 88.8 | 89.6 | 72.0-122 | | | 0.830 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0255 | 0.0245 | 102 | 98.2 | 75.0-126 | | | 3.75 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0233 | 0.0239 | 93.4 | 95.7 | 72.0-130 | | | 2.40 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0265 | 0.0251 | 106 | 100 | 80.0-121 | | | 5.35 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0244 | 0.0238 | 97.6 | 95.2 | 80.0-125 | | | 2.42 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0265 | 0.0257 | 106 | 103 | 75.0-129 | | | 3.28 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0227 | 0.0237 | 90.8 | 94.9 | 60.0-129 | | | 4.43 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0243 | 0.0233 | 97.1 | 93.4 | 62.0-133 | | | 3.93 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243686-1 08/22/17 22:27 • (LCSD) R3243686-2 08/23/17 00:00

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0234 | 0.0233 | 93.5 | 93.2 | 77.0-120 | | | 0.220 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0225 | 0.0245 | 90.2 | 98.2 | 68.0-128 | | | 8.53 | 20 |
| 2-Hexanone | 0.125 | 0.128 | 0.130 | 103 | 104 | 61.0-143 | | | 1.71 | 20 |
| n-Hexane | 0.0250 | 0.0217 | 0.0213 | 86.9 | 85.2 | 57.0-125 | | | 1.99 | 20 |
| Iodomethane | 0.125 | 0.129 | 0.131 | 103 | 105 | 67.0-132 | | | 1.93 | 20 |
| Isopropylbenzene | 0.0250 | 0.0227 | 0.0227 | 90.8 | 90.7 | 75.0-120 | | | 0.160 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0224 | 0.0236 | 89.5 | 94.3 | 74.0-125 | | | 5.16 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.127 | 0.129 | 102 | 103 | 37.0-159 | | | 1.27 | 20 |
| Methylene Chloride | 0.0250 | 0.0230 | 0.0222 | 91.9 | 89.0 | 67.0-123 | | | 3.27 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.131 | 0.124 | 105 | 98.9 | 60.0-144 | | | 5.92 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0246 | 0.0233 | 98.5 | 93.1 | 66.0-125 | | | 5.67 | 20 |
| Naphthalene | 0.0250 | 0.0237 | 0.0224 | 94.9 | 89.6 | 64.0-125 | | | 5.79 | 20 |
| n-Propylbenzene | 0.0250 | 0.0224 | 0.0233 | 89.6 | 93.4 | 78.0-120 | | | 4.09 | 20 |
| Styrene | 0.0250 | 0.0227 | 0.0220 | 90.8 | 87.9 | 78.0-124 | | | 3.25 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0233 | 0.0230 | 93.0 | 92.2 | 74.0-124 | | | 0.910 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0239 | 0.0230 | 95.6 | 91.9 | 73.0-120 | | | 4.01 | 20 |
| Tetrachloroethene | 0.0250 | 0.0243 | 0.0241 | 97.3 | 96.2 | 70.0-127 | | | 1.09 | 20 |
| Toluene | 0.0250 | 0.0231 | 0.0224 | 92.2 | 89.6 | 77.0-120 | | | 2.85 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0249 | 0.0254 | 99.4 | 101 | 64.0-135 | | | 2.03 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0246 | 0.0253 | 98.4 | 101 | 68.0-126 | | | 2.82 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0234 | 0.0261 | 93.6 | 105 | 70.0-127 | | | 11.1 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0222 | 0.0224 | 89.0 | 89.7 | 69.0-125 | | | 0.850 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0243 | 0.0230 | 97.0 | 92.0 | 78.0-120 | | | 5.32 | 20 |
| Trichloroethene | 0.0250 | 0.0240 | 0.0238 | 95.9 | 95.1 | 79.0-120 | | | 0.900 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0286 | 0.0299 | 114 | 120 | 59.0-136 | | | 4.56 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0243 | 0.0218 | 97.1 | 87.2 | 73.0-124 | | | 10.8 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0229 | 0.0228 | 91.7 | 91.1 | 76.0-120 | | | 0.660 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0210 | 0.0216 | 84.2 | 86.3 | 75.0-120 | | | 2.54 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0222 | 0.0227 | 88.8 | 90.7 | 75.0-120 | | | 2.14 | 20 |
| Vinyl acetate | 0.125 | 0.131 | 0.135 | 105 | 108 | 58.0-156 | | | 3.01 | 20 |
| Vinyl chloride | 0.0250 | 0.0278 | 0.0284 | 111 | 114 | 63.0-134 | | | 2.11 | 20 |
| Xylenes, Total | 0.0750 | 0.0675 | 0.0678 | 90.0 | 90.4 | 77.0-120 | | | 0.440 | 20 |
| *(S) Toluene-d8* | | | | *102* | *101* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *97.7* | *97.7* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *93.0* | *91.6* | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3243084-3 08/17/17 21:59

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3243084-3 08/17/17 21:59

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *103* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *105* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243084-1 08/17/17 21:01 • (LCSD) R3243084-2 08/17/17 21:20

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 199 | 132 | 159 | 105 | 10.0-160 | | J3 | 40.9 | 23 |
| Acrylonitrile | 125 | 140 | 115 | 112 | 91.8 | 60.0-142 | | | 20.0 | 20 |
| Benzene | 25.0 | 26.0 | 25.7 | 104 | 103 | 69.0-123 | | | 1.42 | 20 |
| Bromobenzene | 25.0 | 24.6 | 24.8 | 98.6 | 99.2 | 79.0-120 | | | 0.610 | 20 |
| Bromodichloromethane | 25.0 | 25.7 | 25.3 | 103 | 101 | 76.0-120 | | | 1.78 | 20 |
| Bromochloromethane | 25.0 | 26.0 | 25.1 | 104 | 100 | 76.0-122 | | | 3.43 | 20 |
| Bromoform | 25.0 | 24.3 | 25.1 | 97.4 | 100 | 67.0-132 | | | 3.18 | 20 |
| Bromomethane | 25.0 | 26.2 | 24.6 | 105 | 98.5 | 18.0-160 | | | 6.17 | 20 |
| n-Butylbenzene | 25.0 | 25.7 | 25.7 | 103 | 103 | 72.0-126 | | | 0.0800 | 20 |
| sec-Butylbenzene | 25.0 | 25.9 | 25.7 | 104 | 103 | 74.0-121 | | | 0.970 | 20 |
| tert-Butylbenzene | 25.0 | 25.8 | 25.6 | 103 | 102 | 75.0-122 | | | 0.980 | 20 |
| Carbon disulfide | 25.0 | 28.3 | 27.8 | 113 | 111 | 55.0-127 | | | 1.51 | 20 |
| Carbon tetrachloride | 25.0 | 25.3 | 24.9 | 101 | 99.5 | 63.0-122 | | | 1.80 | 20 |
| Chlorobenzene | 25.0 | 25.0 | 25.1 | 100 | 100 | 79.0-121 | | | 0.210 | 20 |
| Chlorodibromomethane | 25.0 | 23.9 | 24.2 | 95.4 | 96.9 | 75.0-125 | | | 1.60 | 20 |
| Chloroethane | 25.0 | 27.7 | 26.1 | 111 | 105 | 47.0-152 | | | 5.65 | 20 |
| Chloroform | 25.0 | 26.2 | 25.8 | 105 | 103 | 72.0-121 | | | 1.88 | 20 |
| Chloromethane | 25.0 | 29.1 | 28.4 | 117 | 114 | 48.0-139 | | | 2.57 | 20 |
| 2-Chlorotoluene | 25.0 | 25.4 | 25.4 | 101 | 101 | 74.0-122 | | | 0.0900 | 20 |
| 4-Chlorotoluene | 25.0 | 25.6 | 25.6 | 102 | 102 | 79.0-120 | | | 0.0600 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 24.1 | 22.3 | 96.3 | 89.2 | 64.0-127 | | | 7.64 | 20 |
| 1,2-Dibromoethane | 25.0 | 23.9 | 24.3 | 95.6 | 97.3 | 77.0-123 | | | 1.84 | 20 |
| Dibromomethane | 25.0 | 26.4 | 25.5 | 106 | 102 | 78.0-120 | | | 3.58 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 24.5 | 24.4 | 98.1 | 97.7 | 80.0-120 | | | 0.390 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 25.3 | 25.1 | 101 | 101 | 72.0-123 | | | 0.480 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 24.8 | 24.7 | 99.3 | 98.9 | 77.0-120 | | | 0.440 | 20 |
| Dichlorodifluoromethane | 25.0 | 35.6 | 34.3 | 142 | 137 | 49.0-155 | | | 3.79 | 20 |
| 1,1-Dichloroethane | 25.0 | 27.4 | 26.5 | 110 | 106 | 70.0-126 | | | 3.40 | 20 |
| 1,2-Dichloroethane | 25.0 | 26.1 | 25.8 | 104 | 103 | 67.0-126 | | | 1.06 | 20 |
| 1,1-Dichloroethene | 25.0 | 28.0 | 27.9 | 112 | 111 | 64.0-129 | | | 0.620 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 26.5 | 26.0 | 106 | 104 | 73.0-120 | | | 2.00 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 26.8 | 26.1 | 107 | 104 | 71.0-121 | | | 2.79 | 20 |
| 1,2-Dichloropropane | 25.0 | 27.1 | 26.8 | 108 | 107 | 75.0-125 | | | 0.970 | 20 |
| 1,1-Dichloropropene | 25.0 | 27.1 | 26.7 | 109 | 107 | 71.0-129 | | | 1.41 | 20 |
| 1,3-Dichloropropane | 25.0 | 24.7 | 24.9 | 98.9 | 99.5 | 80.0-121 | | | 0.630 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 24.9 | 24.9 | 99.5 | 99.7 | 79.0-123 | | | 0.230 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 23.8 | 24.5 | 95.2 | 98.1 | 74.0-127 | | | 2.98 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 20.7 | 22.1 | 82.8 | 88.5 | 55.0-134 | | | 6.68 | 20 |
| 2,2-Dichloropropane | 25.0 | 26.2 | 24.5 | 105 | 98.0 | 60.0-125 | | | 6.62 | 20 |
| Di-isopropyl ether | 25.0 | 26.9 | 25.8 | 108 | 103 | 59.0-133 | | | 4.22 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243084-1 08/17/17 21:01 • (LCSD) R3243084-2 08/17/17 21:20

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 25.2 | 25.1 | 101 | 100 | 77.0-120 | | | 0.390 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 22.9 | 23.7 | 91.4 | 94.7 | 64.0-131 | | | 3.51 | 20 |
| 2-Hexanone | 125 | 132 | 130 | 106 | 104 | 58.0-147 | | | 1.26 | 20 |
| n-Hexane | 25.0 | 27.0 | 25.9 | 108 | 104 | 56.0-124 | | | 4.17 | 20 |
| Iodomethane | 125 | 135 | 132 | 108 | 105 | 57.0-140 | | | 2.75 | 20 |
| Isopropylbenzene | 25.0 | 26.0 | 26.0 | 104 | 104 | 75.0-120 | | | 0.100 | 20 |
| p-Isopropyltoluene | 25.0 | 25.1 | 25.0 | 100 | 99.9 | 74.0-126 | | | 0.390 | 20 |
| 2-Butanone (MEK) | 125 | 155 | 131 | 124 | 105 | 37.0-158 | | | 16.6 | 20 |
| Methylene Chloride | 25.0 | 25.8 | 24.4 | 103 | 97.5 | 66.0-121 | | | 5.77 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 130 | 123 | 104 | 98.5 | 59.0-143 | | | 5.06 | 20 |
| Methyl tert-butyl ether | 25.0 | 26.3 | 24.9 | 105 | 99.7 | 64.0-123 | | | 5.46 | 20 |
| Naphthalene | 25.0 | 22.8 | 22.2 | 91.3 | 88.7 | 62.0-128 | | | 2.89 | 20 |
| n-Propylbenzene | 25.0 | 26.0 | 26.1 | 104 | 104 | 79.0-120 | | | 0.440 | 20 |
| Styrene | 25.0 | 25.7 | 26.3 | 103 | 105 | 78.0-124 | | | 2.07 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 24.7 | 24.7 | 98.9 | 98.7 | 75.0-122 | | | 0.190 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 24.7 | 24.2 | 98.7 | 96.9 | 71.0-122 | | | 1.86 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 29.4 | 28.3 | 117 | 113 | 61.0-136 | | | 3.66 | 20 |
| Tetrachloroethene | 25.0 | 24.8 | 24.7 | 99.1 | 99.0 | 70.0-127 | | | 0.110 | 20 |
| Toluene | 25.0 | 24.2 | 24.3 | 97.0 | 97.2 | 77.0-120 | | | 0.260 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 23.9 | 23.6 | 95.8 | 94.6 | 61.0-133 | | | 1.24 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 23.5 | 23.8 | 93.9 | 95.2 | 69.0-129 | | | 1.38 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 26.6 | 26.0 | 106 | 104 | 68.0-122 | | | 2.49 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 24.1 | 24.4 | 96.3 | 97.5 | 78.0-120 | | | 1.27 | 20 |
| Trichloroethene | 25.0 | 26.2 | 25.9 | 105 | 104 | 78.0-120 | | | 1.11 | 20 |
| Trichlorofluoromethane | 25.0 | 28.4 | 26.9 | 114 | 108 | 56.0-137 | | | 5.48 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 24.9 | 24.3 | 99.4 | 97.1 | 72.0-124 | | | 2.36 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 24.7 | 24.5 | 98.9 | 98.0 | 75.0-120 | | | 0.880 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 24.5 | 24.0 | 98.2 | 95.9 | 75.0-120 | | | 2.32 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 25.2 | 25.2 | 101 | 101 | 75.0-120 | | | 0.0400 | 20 |
| Vinyl acetate | 125 | 123 | 118 | 98.5 | 94.5 | 46.0-160 | | | 4.13 | 20 |
| Vinyl chloride | 25.0 | 29.7 | 28.9 | 119 | 116 | 64.0-133 | | | 2.56 | 20 |
| Xylenes, Total | 75.0 | 75.8 | 75.7 | 101 | 101 | 77.0-120 | | | 0.130 | 20 |
| *(S) Toluene-d8* | | | | *103* | *105* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *104* | *103* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *102* | *104* | *80.0-120* | | | | |

## Abbreviations and Definitions

| | |
|---|---|
| SDG | Sample Delivery Group. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| RDL | Reported Detection Limit. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| RPD | Relative Percent Difference. |
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Rec. | Recovery. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |

# ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.



## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

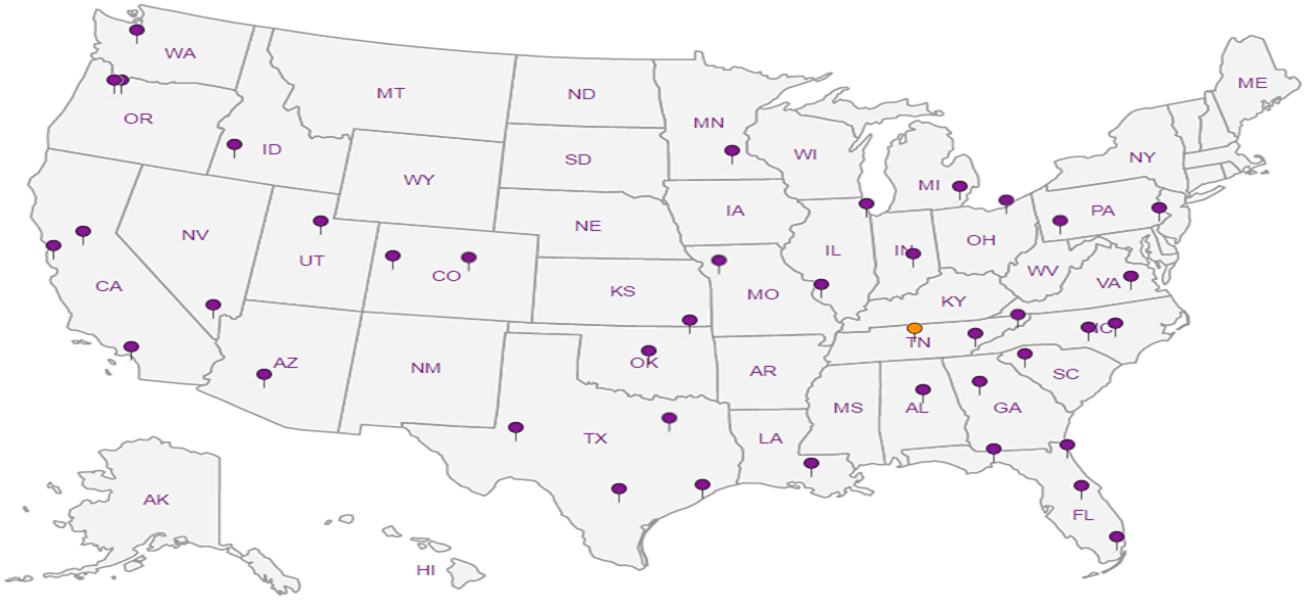
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): K. Springstead

Site/Facility ID # 1413.001.02.602

P.O. # 1413.001.02.602

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day STANDARD

Quote #

Date Results Needed TAT

Chain of Custody Page 1 of 1

ESC LABORATORY SCIENCES
a subsidiary of Pace Analytical
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 192901
C069

Acctnum: PESENVSWA
Template: T126581
Prelogin: P613267
TSR: 110 - Brian Ford
PB: 8/7/17 MW
Shipped Via: FedEX 2nd Day

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-206-15 | Grab | SS | 15 | 8-14-17 | 1025 | 5 | X | | X | X | | GX/VOCs | -01 |
| B-206-30 | Grab | SS | 30 | 8-14-17 | 1055 | 5 | X | | X | X | | | -02 |
| B-206-40 | Grab | SS | 40 | 8-14-17 | 1120 | 5 | X | | X | X | | | -03 |
| B-206-49 | Grab | SS | 49 | 8-14-17 | 1200 | 5 | X | | X | X | | | -04 |
| B-206-52 | Grab | SS | 52 | 8-14-17 | 1415 | 5 | X | | X | X | | | -05 |
| B-206-56 | Grab | SS | 56 | 8-14-17 | 1405 | 5 | X | | X | X | | | -06 |
| B-206-70 | Grab | SS | 70 | 8-14-17 | 1640 | 5 | X | | X | X | | | -07 |
| B-206-80 | Grab | SS | 80 | 8-14-17 | 1630 | 5 | X | | X | X | | | -08 |
| B-206-59 | Grab | SS | 59 | 8-14-17 | 1350 | 5 | X | | X | X | | | -09 |
| TRIP BLANK-081417 | — | — | — | — | — | 4 | | X | X | X | | GX/VOCs | -10 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| | 8-15-17 | 1600 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 1.7 °C | Bottles Received: 45 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 8-16-17 | Time: 845 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

# MEMORANDUM

**TO:** Project File **DATE:** September 12, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** August 14, 2017 – Soil and Groundwater Samples

**LAB:** ESC Lab ID L929901

---

Nine (9) soil samples and a trip blank sample were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on August 14, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L929901. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in X# ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L934130, L934673, L934916, and). The quality assurance review of the sample data associated with SDG L929901 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on August 14, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped by courier to ESC. The laboratory reported that the cooler and samples were received at 1.7 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved water from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils and preserved water from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of 7 days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C for soils:* Continuing calibration verification (CCV) issues were noted by ESC for hexachloro-1,3-butadiene, 1,2,3-trichlorobenzene, and 1,2,4-trichlorobenzene associated with analytical batch WG1010895 (analyzed on August 22, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C for soils:* Continuing calibration verification (CCV) issues were noted by ESC for bromomethane, 2,2-dichloropropane, 1,1,2-trichlorotrifluoroethane, and tetrachloroethene associated with analytical batch WG1011219 (analyzed on August 19, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*

Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at or above the reported detection limits (RDLs) with the following exception:

- Analytical batch WG1012508: A low level of iodomethane was detected in the method blank analyzed on August 23, 2017. No action was necessary as iodomethane was not detected in associated samples.

*NWTPH-Gx Method:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDL.

*Total Solids by SM 2540 G 2011:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (% solids) were not detected at significant levels in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C and NWTPH-Gx:*
A trip blank was collected and analyzed. The target analytes (VOCs and gasoline) were not detected in the method blanks at or above the RDL.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicates were not collected.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results and/or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) and/or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on a non-client sample and on a client sample from a different SDG within the analytical batches. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters with the following discussion:

- LCS/LCSD (Batch WG1010895) RPD value for compound 1,2-Dibromo-3-Chloropropane is above laboratory acceptance criteria (20%) and qualified by the laboratory (J3). No action was taken on this basis as LCS/LCSD percent recovery results are recovered wide but are within control limits.

- LCS (Batch WG1011219) percent recovery for compound tetrachloroethene is slightly above laboratory criteria and qualified by the laboratory (J4). **Associated sample results with detections (B-206-56, B-206-70, B-206-80, and B-206-59) are estimated and qualified (J).**

- LCSD (Batch WG1010972) RPD value for compound acetone is above laboratory acceptance criteria (20%) and qualified by the laboratory (J3). No action was taken on this basis as LCS/LCSD percent recovery results are recovered wide but are within control limits.

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for water and soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on non-client samples. MS/MSD % Rs and RPD were within the laboratory control criteria for soils with the following exceptions:

- MS/MSD (Batch WG1010895) spike recovery results for compound acetone were recovered above the control limit criteria. No action is taken since the spike was performed on a non-client sample and associated LCS/LCSD recoveries are acceptable. It should be noted that notes indicate sample was run at a dilution (25X) due to anticipated elevated concentrations.
- MS/MSD (Batch WG1011219) RPD result for compound trichlorofluoromethane is above laboratory acceptance criteria (20%) and qualified by the laboratory (J3). No action was taken on this basis as MS/MSD percent recovery results are recovered wide but are within control limits.

*NWTPH-Gx Method:*
MS/MSD analyses were performed on a non-client sample and on sample B-206-70. MS/MSD % Rs and RPDs were within the laboratory control criteria for soils.

**Other Quality Control Issues**

No laboratory quality control issues were identified in the laboratory report with the following exception:

- ESC notes indicate that Sample B-206-52 was not reanalyzed at a lower dilution (for cis-1,2-DCE) as there was no low level sodium bisulfite vials remaining. No action is taken other than to note this.

**Compound Identification and Quantitation Limits**

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

PES requested and ESC confirmed that there does not appear to be a gasoline chromatographic pattern in selected samples, and in "all likelihood the gasoline values are in the fact the high levels of chlorinated VOCs." **Gasoline range organic results for samples B-206-30, B-206-49, and B-206-56, are qualified as estimated (J) based on chromatographic patterns in the samples and elevated chlorinated VOCs (CVOCs).**

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

**Data Assessment**

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.9 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.243 | | 0.0390 | 0.115 | 1 | 08/20/2017 14:59 | WG1011760 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.1* | | | *77.0-120* | | *08/20/2017 14:59* | WG1011760 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.288 | 1.44 | 25 | 08/23/2017 01:30 | WG1010895 |
| Acrylonitrile | U | | 0.0516 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Benzene | U | | 0.00777 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Bromobenzene | U | | 0.00817 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Bromodichloromethane | U | | 0.00731 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Bromochloromethane | U | | 0.0112 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| Bromoform | U | | 0.0122 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Bromomethane | U | | 0.0386 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| n-Butylbenzene | U | | 0.00742 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| sec-Butylbenzene | U | | 0.00578 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| tert-Butylbenzene | U | | 0.00593 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Carbon disulfide | U | | 0.00635 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Carbon tetrachloride | U | | 0.00944 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Chlorobenzene | U | | 0.00610 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Chlorodibromomethane | U | | 0.0107 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Chloroethane | U | | 0.0272 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| Chloroform | U | | 0.00658 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| Chloromethane | U | | 0.0108 | 0.0719 | 25 | 08/23/2017 01:30 | WG1010895 |
| 2-Chlorotoluene | U | | 0.00865 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 4-Chlorotoluene | U | | 0.00690 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.0302 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.00987 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Dibromomethane | U | | 0.0110 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.00877 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.00688 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.00650 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.0205 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.00573 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.00762 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1-Dichloroethene | U | | 0.00872 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| cis-1,2-Dichloroethene | 0.306 | | 0.00677 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| trans-1,2-Dichloroethene | 0.00825 J | J | 0.00760 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.0103 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.00911 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.00596 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.00754 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.00769 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.0223 | 0.0719 | 25 | 08/23/2017 01:30 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.00803 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Di-isopropyl ether | U | | 0.00714 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Ethylbenzene | U | | 0.00854 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Hexachloro-1,3-butadiene | U | | 0.00984 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 2-Hexanone | U | | 0.0394 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |
| n-Hexane | 0.0395 J | J | 0.00834 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0727 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Isopropylbenzene | U | | 0.00700 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| p-Isopropyltoluene | U | | 0.00587 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 2-Butanone (MEK) | U | | 0.135 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Methylene Chloride | U | | 0.0288 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0541 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Methyl tert-butyl ether | 0.145 | | 0.00610 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Naphthalene | U | | 0.0288 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| n-Propylbenzene | U | | 0.00593 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Styrene | U | | 0.00673 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00760 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0105 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0105 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Tetrachloroethene | 0.0715 | | 0.00794 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Toluene | U | | 0.0124 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2,3-Trichlorobenzene | U | | 0.00880 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2,4-Trichlorobenzene | U | | 0.0112 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.00823 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.00796 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Trichloroethene | 0.00831 J | J | 0.00803 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Trichlorofluoromethane | U | | 0.0110 | 0.144 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.0213 | 0.0719 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2,4-Trimethylbenzene | 0.0151 J | J | 0.00608 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.00826 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.00765 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Vinyl acetate | U | | 0.0688 | 0.288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Vinyl chloride | U | | 0.00838 | 0.0288 | 25 | 08/23/2017 01:30 | WG1010895 |
| Xylenes, Total | U | | 0.0200 | 0.0863 | 25 | 08/23/2017 01:30 | WG1010895 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/23/2017 01:30* | WG1010895 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/23/2017 01:30* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *08/23/2017 01:30* | WG1010895 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.2 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.32 J | | 0.0389 | 0.115 | 1 | 08/20/2017 15:21 | WG1011760 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.1* | | | *77.0-120* | | *08/20/2017 15:21* | WG1011760 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0177 J | J | 0.0115 | 0.0574 | 1 | 08/22/2017 09:23 | WG1010895 |
| Acrylonitrile | U | | 0.00205 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Benzene | U | | 0.000310 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Bromobenzene | U | | 0.000326 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Bromodichloromethane | U | | 0.000291 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Bromochloromethane | U | | 0.000447 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| Bromoform | U | | 0.000486 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Bromomethane | U | | 0.00154 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| n-Butylbenzene | U | | 0.000296 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| tert-Butylbenzene | U | | 0.000236 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Carbon disulfide | 0.00174 | | 0.000253 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Carbon tetrachloride | U | | 0.000376 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Chlorobenzene | U | | 0.000243 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Chlorodibromomethane | U | | 0.000428 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Chloroethane | U | | 0.00109 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| Chloroform | U | | 0.000263 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| Chloromethane | U | | 0.000430 | 0.00287 | 1 | 08/22/2017 09:23 | WG1010895 |
| 2-Chlorotoluene | U | | 0.000345 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 4-Chlorotoluene | U | | 0.000275 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00120 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.000393 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Dibromomethane | U | | 0.000438 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.000350 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.000274 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.000259 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.000818 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.000228 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.000304 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1-Dichloroethene | 0.00192 | | 0.000348 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| cis-1,2-Dichloroethene | 12.6 | | 0.135 | 0.574 | 500 | 08/23/2017 14:58 | WG1010895 |
| trans-1,2-Dichloroethene | 0.00230 | | 0.000303 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.000411 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.000364 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.000237 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.000306 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.000892 | 0.00287 | 1 | 08/22/2017 09:23 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.000320 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Di-isopropyl ether | U | | 0.000284 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Ethylbenzene | U | | 0.000341 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Hexachloro-1,3-butadiene | U UJ | J0 | 0.000392 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 2-Hexanone | U | | 0.00157 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |
| n-Hexane | U | | 0.000333 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00290 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Isopropylbenzene | U | | 0.000279 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| p-Isopropyltoluene | U | | 0.000234 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 2-Butanone (MEK) | U | | 0.00537 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Methylene Chloride | U | | 0.00115 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Methyl tert-butyl ether | U | | 0.000243 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Naphthalene | 0.0340 | | 0.00115 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| n-Propylbenzene | U | | 0.000236 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Styrene | U | | 0.000268 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000303 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000419 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000419 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Tetrachloroethene | 0.0522 | | 0.000317 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Toluene | U | | 0.000498 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2,3-Trichlorobenzene | U UJ | J0 | 0.000351 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2,4-Trichlorobenzene | U UJ | J0 | 0.000445 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.000328 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.000318 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Trichloroethene | 0.0289 | | 0.000320 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Trichlorofluoromethane | U | | 0.000438 | 0.00574 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.000850 | 0.00287 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.000242 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.000329 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.000305 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Vinyl acetate | U | | 0.00274 | 0.0115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Vinyl chloride | 0.124 | | 0.000334 | 0.00115 | 1 | 08/22/2017 09:23 | WG1010895 |
| Xylenes, Total | U | | 0.000801 | 0.00344 | 1 | 08/22/2017 09:23 | WG1010895 |
| *(S) Toluene-d8* | *98.4* | | | *80.0-120* | | *08/22/2017 09:23* | WG1010895 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/23/2017 14:58* | WG1010895 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *08/22/2017 09:23* | WG1010895 |
| *(S) Dibromofluoromethane* | *98.7* | | | *74.0-131* | | *08/23/2017 14:58* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/22/2017 09:23* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *97.8* | | | *64.0-132* | | *08/23/2017 14:58* | WG1010895 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.6 | | 1 | 08/21/2017 09:08 | WG1011914 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0358 | 0.106 | 1 | 08/20/2017 15:43 | WG1011760 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.6* | | | *77.0-120* | | *08/20/2017 15:43* | WG1011760 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0191 J | J | 0.0106 | 0.0529 | 1 | 08/22/2017 09:44 | WG1010895 |
| Acrylonitrile | U | | 0.00189 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Benzene | U | | 0.000285 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Bromobenzene | U | | 0.000300 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Bromodichloromethane | U | | 0.000268 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Bromochloromethane | U | | 0.000412 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| Bromoform | U | | 0.000448 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Bromomethane | U | | 0.00142 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| n-Butylbenzene | U | | 0.000273 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| sec-Butylbenzene | U | | 0.000212 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| tert-Butylbenzene | U | | 0.000218 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Carbon disulfide | 0.00114 | | 0.000234 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Carbon tetrachloride | U | | 0.000347 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Chlorobenzene | U | | 0.000224 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Chlorodibromomethane | U | | 0.000394 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Chloroethane | U | | 0.00100 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| Chloroform | U | | 0.000242 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| Chloromethane | U | | 0.000396 | 0.00264 | 1 | 08/22/2017 09:44 | WG1010895 |
| 2-Chlorotoluene | U | | 0.000318 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 4-Chlorotoluene | U | | 0.000254 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00111 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2-Dibromoethane | U | | 0.000363 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Dibromomethane | U | | 0.000404 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2-Dichlorobenzene | U | | 0.000322 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,3-Dichlorobenzene | U | | 0.000253 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,4-Dichlorobenzene | U | | 0.000239 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Dichlorodifluoromethane | U | | 0.000754 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1-Dichloroethane | U | | 0.000210 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2-Dichloroethane | U | | 0.000280 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1-Dichloroethene | U | | 0.000320 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| cis-1,2-Dichloroethene | 0.00879 J | J | 0.00627 | 0.0267 | 25.25 | 08/23/2017 14:38 | WG1010895 |
| trans-1,2-Dichloroethene | U | | 0.000279 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2-Dichloropropane | U | | 0.000378 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1-Dichloropropene | U | | 0.000335 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,3-Dichloropropane | U | | 0.000219 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| cis-1,3-Dichloropropene | U | | 0.000277 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| trans-1,3-Dichloropropene | U | | 0.000282 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| trans-1,4-Dichloro-2-butene | U | | 0.000822 | 0.00264 | 1 | 08/22/2017 09:44 | WG1010895 |
| 2,2-Dichloropropane | U | | 0.000295 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Di-isopropyl ether | U | | 0.000262 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Ethylbenzene | U | | 0.000314 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Hexachloro-1,3-butadiene | U UJ | J0 | 0.000362 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 2-Hexanone | U | | 0.00145 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |
| n-Hexane | 0.00151 J | J | 0.000307 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00267 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Isopropylbenzene | U | | 0.000257 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| p-Isopropyltoluene | U | | 0.000216 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 2-Butanone (MEK) | U | | 0.00495 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Methylene Chloride | U | | 0.00106 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00199 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Methyl tert-butyl ether | U | | 0.000224 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Naphthalene | 0.00114 J | J | 0.00106 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| n-Propylbenzene | U | | 0.000218 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Styrene | U | | 0.000247 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000279 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000386 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000386 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Tetrachloroethene | 0.000306 J | J | 0.000292 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Toluene | U | | 0.000459 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2,3-Trichlorobenzene | U UJ | J0 | 0.000323 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2,4-Trichlorobenzene | U UJ | J0 | 0.000410 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1,1-Trichloroethane | U | | 0.000302 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,1,2-Trichloroethane | U | | 0.000293 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Trichloroethene | U | | 0.000295 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Trichlorofluoromethane | U | | 0.000404 | 0.00529 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2,3-Trichloropropane | U | | 0.000783 | 0.00264 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2,4-Trimethylbenzene | U | | 0.000223 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,2,3-Trimethylbenzene | U | | 0.000303 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| 1,3,5-Trimethylbenzene | U | | 0.000281 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Vinyl acetate | U | | 0.00253 | 0.0106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Vinyl chloride | U | | 0.000308 | 0.00106 | 1 | 08/22/2017 09:44 | WG1010895 |
| Xylenes, Total | U | | 0.000738 | 0.00317 | 1 | 08/22/2017 09:44 | WG1010895 |
| *(S) Toluene-d8* | *93.6* | | | *80.0-120* | | *08/23/2017 14:38* | WG1010895 |
| *(S) Toluene-d8* | *95.1* | | | *80.0-120* | | *08/22/2017 09:44* | WG1010895 |
| *(S) Dibromofluoromethane* | *98.0* | | | *74.0-131* | | *08/23/2017 14:38* | WG1010895 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *08/22/2017 09:44* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *99.0* | | | *64.0-132* | | *08/23/2017 14:38* | WG1010895 |
| *(S) 4-Bromofluorobenzene* | *99.2* | | | *64.0-132* | | *08/22/2017 09:44* | WG1010895 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.8 | | 1 | 08/21/2017 09:08 | WG1011914 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 4.54 J | | 0.0386 | 0.114 | 1 | 08/20/2017 16:05 | WG1011760 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.4* | | | *77.0-120* | | *08/20/2017 16:05* | WG1011760 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U | | 0.0114 | 0.0570 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Bromobenzene | U | | 0.000324 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Bromodichloromethane | U | | 0.000289 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Bromochloromethane | U | | 0.000444 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Bromoform | U | | 0.000483 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Bromomethane | U | | 0.00153 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 | |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Carbon disulfide | 0.00390 | | 0.000252 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Carbon tetrachloride | U | | 0.000374 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Chlorodibromomethane | U | | 0.000425 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Chloroethane | U | | 0.00108 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Chloroform | U | | 0.000261 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Chloromethane | U | | 0.000427 | 0.00285 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 4-Chlorotoluene | U | | 0.000273 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Dibromomethane | U | | 0.000435 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 1,2-Dichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 1,3-Dichlorobenzene | U | | 0.000272 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Dichlorodifluoromethane | U | | 0.000812 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 1,1-Dichloroethene | 0.00751 | | 0.000345 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| cis-1,2-Dichloroethene | 6.41 | | 0.0268 | 0.114 | 100 | 08/23/2017 14:22 | WG1012508 | |
| trans-1,2-Dichloroethene | 0.0132 | | 0.000301 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 1,2-Dichloropropane | U | | 0.000408 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 1,1-Dichloropropene | U | | 0.000361 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| cis-1,3-Dichloropropene | U | | 0.000298 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| trans-1,3-Dichloropropene | U | | 0.000304 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| trans-1,4-Dichloro-2-butene | U | | 0.000886 | 0.00285 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Di-isopropyl ether | U | | 0.000283 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Ethylbenzene | U | | 0.000338 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| Hexachloro-1,3-butadiene | U | | 0.000390 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 | |
| n-Hexane | 0.00815 J | J | 0.000330 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 | JC 9/13/17 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00288 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00533 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Methylene Chloride | U | | 0.00114 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Naphthalene | U | | 0.00114 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000416 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000416 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Tetrachloroethene | 17.2 | | 0.229 | 0.832 | 730 | 08/23/2017 16:39 | WG1012508 |
| Toluene | U | | 0.000494 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000442 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000316 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Trichloroethene | 2.28 | | 0.0318 | 0.114 | 100 | 08/23/2017 14:22 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000435 | 0.00570 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000844 | 0.00285 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000240 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000327 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000303 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Vinyl acetate | U | | 0.00272 | 0.0114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Vinyl chloride | 0.154 | | 0.000332 | 0.00114 | 1 | 08/23/2017 01:56 | WG1012508 |
| Xylenes, Total | U | | 0.000795 | 0.00342 | 1 | 08/23/2017 01:56 | WG1012508 |
| *(S) Toluene-d8* | *94.2* | | | *80.0-120* | | *08/23/2017 01:56* | WG1012508 |
| *(S) Toluene-d8* | *118* | | | *80.0-120* | | *08/23/2017 14:22* | WG1012508 |
| *(S) Toluene-d8* | *115* | | | *80.0-120* | | *08/23/2017 16:39* | WG1012508 |
| *(S) Dibromofluoromethane* | *99.3* | | | *74.0-131* | | *08/23/2017 14:22* | WG1012508 |
| *(S) Dibromofluoromethane* | *99.5* | | | *74.0-131* | | *08/23/2017 16:39* | WG1012508 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/23/2017 01:56* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *97.1* | | | *64.0-132* | | *08/23/2017 01:56* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/23/2017 16:39* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/23/2017 14:22* | WG1012508 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.6 | | 1 | 08/21/2017 09:08 | WG1011914 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0370 | 0.109 | 1 | 08/20/2017 16:28 | WG1011760 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.2* | | | *77.0-120* | | *08/20/2017 16:28* | WG1011760 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0109 | 0.0546 | 1 | 08/23/2017 02:16 | WG1012508 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Benzene | U | | 0.000295 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Bromochloromethane | U | | 0.000426 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| Bromoform | U | | 0.000463 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Bromomethane | U | | 0.00146 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| n-Butylbenzene | U | | 0.000282 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Carbon disulfide | 0.000706 J | J | 0.000241 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Chloroethane | U | | 0.00103 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| Chloroform | U | | 0.000250 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| Chloromethane | U | | 0.000409 | 0.00273 | 1 | 08/23/2017 02:16 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000329 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000375 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000247 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000779 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000331 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| cis-1,2-Dichloroethene | U | | 0.00642 | 0.0273 | 25 | 08/23/2017 16:20 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000391 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000292 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000849 | 0.00273 | 1 | 08/23/2017 02:16 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000305 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Di-isopropyl ether | U | | 0.000271 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 2-Hexanone | U | | 0.00150 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |
| n-Hexane | U | | 0.000317 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00511 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Methylene Chloride | U | | 0.00109 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Naphthalene | U | | 0.00109 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Styrene | U | | 0.000256 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000399 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000399 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Tetrachloroethene | 0.0483 | | 0.00753 | 0.0273 | 25 | 08/23/2017 16:20 | WG1012508 |
| Toluene | U | | 0.000474 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000424 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Trichloroethene | 0.00790 J | J | 0.00762 | 0.0273 | 25 | 08/23/2017 16:20 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000417 | 0.00546 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000809 | 0.00273 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Vinyl chloride | 0.000383 J | J | 0.000318 | 0.00109 | 1 | 08/23/2017 02:16 | WG1012508 |
| Xylenes, Total | U | | 0.000762 | 0.00328 | 1 | 08/23/2017 02:16 | WG1012508 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/23/2017 16:20* | WG1012508 |
| *(S) Toluene-d8* | *96.1* | | | *80.0-120* | | *08/23/2017 02:16* | WG1012508 |
| *(S) Dibromofluoromethane* | *95.8* | | | *74.0-131* | | *08/23/2017 16:20* | WG1012508 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *08/23/2017 02:16* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/23/2017 02:16* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/23/2017 16:20* | WG1012508 |

Sample Narrative:

L929901-05 WG1012508: No low level sodium bisulfite vials remaining. cis-12-DCE cannot be analyzed at a lower dilution.

JC 9/13/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.0 | | 1 | 08/21/2017 09:08 | WG1011914 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.01 | J | 0.0372 | 0.110 | 1 | 08/20/2017 16:50 | WG1011760 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.4* | | | *77.0-120* | | *08/20/2017 16:50* | WG1011760 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0110 | 0.0549 | 1 | 08/19/2017 01:31 | WG1011219 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Benzene | U | | 0.000297 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Bromobenzene | U | | 0.000312 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Bromodichloromethane | U | | 0.000279 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Bromochloromethane | U | | 0.000428 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| Bromoform | U | | 0.000466 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Bromomethane | U | UJ J0 | 0.00147 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| n-Butylbenzene | U | | 0.000283 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| tert-Butylbenzene | U | | 0.000226 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Carbon disulfide | 0.00187 | | 0.000243 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Carbon tetrachloride | U | | 0.000360 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Chlorodibromomethane | U | | 0.000410 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Chloroethane | U | | 0.00104 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| Chloroform | U | | 0.000252 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| Chloromethane | U | | 0.000412 | 0.00275 | 1 | 08/19/2017 01:31 | WG1011219 |
| 2-Chlorotoluene | U | | 0.000331 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 4-Chlorotoluene | U | | 0.000264 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2-Dibromoethane | U | | 0.000377 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Dibromomethane | U | | 0.000420 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2-Dichlorobenzene | U | | 0.000335 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,3-Dichlorobenzene | U | | 0.000263 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,4-Dichlorobenzene | U | | 0.000248 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Dichlorodifluoromethane | U | | 0.000783 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2-Dichloroethane | U | | 0.000291 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1-Dichloroethene | 0.00103 | J J | 0.000333 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| cis-1,2-Dichloroethene | 0.140 | | 0.000258 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| trans-1,2-Dichloroethene | U | | 0.000290 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2-Dichloropropane | U | | 0.000393 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1-Dichloropropene | U | | 0.000348 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,3-Dichloropropane | U | | 0.000227 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| cis-1,3-Dichloropropene | U | | 0.000288 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| trans-1,3-Dichloropropene | U | | 0.000293 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| trans-1,4-Dichloro-2-butene | U | | 0.000855 | 0.00275 | 1 | 08/19/2017 01:31 | WG1011219 |
| 2,2-Dichloropropane | U | UJ J0 | 0.000306 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Di-isopropyl ether | U | | 0.000272 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Ethylbenzene | U | | 0.000326 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Hexachloro-1,3-butadiene | U | | 0.000376 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 2-Hexanone | U | | 0.00150 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |
| n-Hexane | U | | 0.000319 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00278 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Isopropylbenzene | U | | 0.000267 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| p-Isopropyltoluene | U | | 0.000224 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 2-Butanone (MEK) | U | | 0.00514 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Methylene Chloride | U | | 0.00110 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00207 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Naphthalene | U | | 0.00110 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| n-Propylbenzene | U | | 0.000226 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Styrene | U | | 0.000257 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000290 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000401 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1,2-Trichlorotrifluoroethane | U UJ | J0 | 0.000401 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Tetrachloroethene | 9.95 J | J4 | 0.152 | 0.549 | 500 | 08/22/2017 03:29 | WG1011219 |
| Toluene | U | | 0.000477 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2,3-Trichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2,4-Trichlorobenzene | U | | 0.000426 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1,1-Trichloroethane | U | | 0.000314 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,1,2-Trichloroethane | U | | 0.000304 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Trichloroethene | 2.16 | | 0.0127 | 0.0456 | 41.5 | 08/20/2017 19:28 | WG1011219 |
| Trichlorofluoromethane | U | | 0.000420 | 0.00549 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2,3-Trichloropropane | U | | 0.000814 | 0.00275 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,2,3-Trimethylbenzene | U | | 0.000315 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| 1,3,5-Trimethylbenzene | U | | 0.000292 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Vinyl acetate | U | | 0.00263 | 0.0110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Vinyl chloride | 0.000558 J | J | 0.000320 | 0.00110 | 1 | 08/19/2017 01:31 | WG1011219 |
| Xylenes, Total | U | | 0.000767 | 0.00330 | 1 | 08/19/2017 01:31 | WG1011219 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *08/19/2017 01:31* | WG1011219 |
| *(S) Toluene-d8* | *99.6* | | | *80.0-120* | | *08/22/2017 03:29* | WG1011219 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/20/2017 19:28* | WG1011219 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *08/19/2017 01:31* | WG1011219 |
| *(S) Dibromofluoromethane* | *92.9* | | | *74.0-131* | | *08/20/2017 19:28* | WG1011219 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/22/2017 03:29* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *08/19/2017 01:31* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *99.6* | | | *64.0-132* | | *08/20/2017 19:28* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *08/22/2017 03:29* | WG1011219 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.8 | | 1 | 08/21/2017 09:20 | WG1011913 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.10 J | J | 0.951 | 2.81 | 25.75 | 08/22/2017 14:04 | WG1011765 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.9* | | | *77.0-120* | | *08/22/2017 14:04* | WG1011765 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0109 | 0.0545 | 1 | 08/19/2017 01:51 | WG1011219 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Bromomethane | U UJ | J0 | 0.00146 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Carbon disulfide | 0.000401 J | J | 0.000241 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Carbon tetrachloride | U | | 0.000357 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Chlorodibromomethane | U | | 0.000406 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| Chloroform | U | | 0.000249 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| Chloromethane | U | | 0.000409 | 0.00272 | 1 | 08/19/2017 01:51 | WG1011219 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Dibromomethane | U | | 0.000416 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Dichlorodifluoromethane | U | | 0.000777 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| cis-1,2-Dichloroethene | 0.00201 | | 0.000256 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| trans-1,4-Dichloro-2-butene | U | | 0.000848 | 0.00272 | 1 | 08/19/2017 01:51 | WG1011219 |
| 2,2-Dichloropropane | U UJ | J0 | 0.000304 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |
| n-Hexane | 0.000515 J | J | 0.000316 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |

JC 9/13/17

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1,2-Trichlorotrifluoroethane | U UJ | J0 | 0.000398 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Tetrachloroethene | U UJ | J4 | 0.000301 | 0.00109 | 1 | 08/20/2017 19:53 | WG1011219 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2,3-Trichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Trichloroethene | U | | 0.000304 | 0.00109 | 1 | 08/20/2017 19:53 | WG1011219 |
| Trichlorofluoromethane | U | | 0.000416 | 0.00545 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2,3-Trichloropropane | U | | 0.000807 | 0.00272 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Vinyl chloride | U | | 0.000317 | 0.00109 | 1 | 08/19/2017 01:51 | WG1011219 |
| Xylenes, Total | U | | 0.000760 | 0.00327 | 1 | 08/19/2017 01:51 | WG1011219 |
| *(S) Toluene-d8* | *95.5* | | | *80.0-120* | | *08/20/2017 19:53* | WG1011219 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *08/19/2017 01:51* | WG1011219 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/19/2017 01:51* | WG1011219 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *08/20/2017 19:53* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *08/19/2017 01:51* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *98.8* | | | *64.0-132* | | *08/20/2017 19:53* | WG1011219 |

JC 9/13/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.7 | | 1 | 08/21/2017 09:08 | WG1011914 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.988 J | J | 0.924 | 2.73 | 25 | 08/22/2017 14:25 | WG1011765 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.6* | | | *77.0-120* | | *08/22/2017 14:25* | WG1011765 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0109 | 0.0545 | 1 | 08/19/2017 02:11 | WG1011219 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Bromomethane | U UJ | J0 | 0.00146 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Carbon disulfide | 0.000339 J | J | 0.000241 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| Chloroform | U | | 0.000250 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| Chloromethane | U | | 0.000409 | 0.00273 | 1 | 08/19/2017 02:11 | WG1011219 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Dibromomethane | U | | 0.000416 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Dichlorodifluoromethane | U | | 0.000777 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| cis-1,2-Dichloroethene | 0.000647 J | J | 0.000256 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| trans-1,4-Dichloro-2-butene | U | | 0.000848 | 0.00273 | 1 | 08/19/2017 02:11 | WG1011219 |
| 2,2-Dichloropropane | U UJ | J0 | 0.000304 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |
| n-Hexane | 0.000634 J | J | 0.000316 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1,2-Trichlorotrifluoroethane | U UJ | J0 | 0.000398 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Tetrachloroethene | 0.00283 J | J4 | 0.000301 | 0.00109 | 1 | 08/20/2017 20:19 | WG1011219 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Trichloroethene | U | | 0.000304 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Trichlorofluoromethane | U | | 0.000416 | 0.00545 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2,3-Trichloropropane | U | | 0.000808 | 0.00273 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Vinyl chloride | 0.000386 J | J | 0.000317 | 0.00109 | 1 | 08/19/2017 02:11 | WG1011219 |
| Xylenes, Total | U | | 0.000761 | 0.00327 | 1 | 08/19/2017 02:11 | WG1011219 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/19/2017 02:11* | WG1011219 |
| *(S) Toluene-d8* | *96.9* | | | *80.0-120* | | *08/20/2017 20:19* | WG1011219 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/20/2017 20:19* | WG1011219 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/19/2017 02:11* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/19/2017 02:11* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *08/20/2017 20:19* | WG1011219 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 96.1 | | 1 | 08/21/2017 09:08 | WG1011914 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0353 | 0.104 | 1 | 08/22/2017 14:47 | WG1011765 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.3* | | | *77.0-120* | | *08/22/2017 14:47* | WG1011765 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0104 | 0.0520 | 1 | 08/19/2017 02:31 | WG1011219 |
| Acrylonitrile | U | | 0.00186 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Benzene | U | | 0.000281 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Bromobenzene | U | | 0.000295 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Bromodichloromethane | U | | 0.000264 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Bromochloromethane | U | | 0.000406 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| Bromoform | U | | 0.000441 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Bromomethane | U | UJ J0 | 0.00139 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| n-Butylbenzene | U | | 0.000268 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| sec-Butylbenzene | U | | 0.000209 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| tert-Butylbenzene | U | | 0.000214 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Carbon disulfide | 0.000485 | J J | 0.000230 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Carbon tetrachloride | U | | 0.000341 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Chlorobenzene | U | | 0.000221 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Chlorodibromomethane | U | | 0.000388 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Chloroethane | U | | 0.000984 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| Chloroform | U | | 0.000238 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| Chloromethane | U | | 0.000390 | 0.00260 | 1 | 08/19/2017 02:31 | WG1011219 |
| 2-Chlorotoluene | U | | 0.000313 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 4-Chlorotoluene | U | | 0.000250 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00109 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2-Dibromoethane | U | | 0.000357 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Dibromomethane | U | | 0.000397 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2-Dichlorobenzene | U | | 0.000317 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,3-Dichlorobenzene | U | | 0.000249 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,4-Dichlorobenzene | U | | 0.000235 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Dichlorodifluoromethane | U | | 0.000742 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1-Dichloroethane | U | | 0.000207 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2-Dichloroethane | U | | 0.000276 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1-Dichloroethene | U | | 0.000315 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| cis-1,2-Dichloroethene | 0.00686 | | 0.000244 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| trans-1,2-Dichloroethene | U | | 0.000275 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2-Dichloropropane | U | | 0.000372 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1-Dichloropropene | U | | 0.000330 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,3-Dichloropropane | U | | 0.000215 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| cis-1,3-Dichloropropene | U | | 0.000273 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| trans-1,3-Dichloropropene | U | | 0.000278 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| trans-1,4-Dichloro-2-butene | U | | 0.000809 | 0.00260 | 1 | 08/19/2017 02:31 | WG1011219 |
| 2,2-Dichloropropane | U | UJ J0 | 0.000290 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Di-isopropyl ether | U | | 0.000258 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Ethylbenzene | U | | 0.000309 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Hexachloro-1,3-butadiene | U | | 0.000356 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 2-Hexanone | U | | 0.00143 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |
| n-Hexane | U | | 0.000302 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |

JC 9/13/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00263 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Isopropylbenzene | U | | 0.000253 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| p-Isopropyltoluene | U | | 0.000212 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 2-Butanone (MEK) | U | | 0.00487 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Methylene Chloride | U | | 0.00104 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00196 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Methyl tert-butyl ether | U | | 0.000221 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Naphthalene | U | | 0.00104 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| n-Propylbenzene | U | | 0.000214 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Styrene | U | | 0.000243 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000275 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000380 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1,2-Trichlorotrifluoroethane | U UJ | J0 | 0.000380 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Tetrachloroethene | 0.00866 J | J0 J4 | 0.000287 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Toluene | U | | 0.000451 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2,3-Trichlorobenzene | U | | 0.000318 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2,4-Trichlorobenzene | U | | 0.000404 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1,1-Trichloroethane | U | | 0.000298 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,1,2-Trichloroethane | U | | 0.000288 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Trichloroethene | 0.00248 | | 0.000290 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Trichlorofluoromethane | U | | 0.000397 | 0.00520 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2,3-Trichloropropane | U | | 0.000771 | 0.00260 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2,4-Trimethylbenzene | U | | 0.000219 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,2,3-Trimethylbenzene | U | | 0.000299 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| 1,3,5-Trimethylbenzene | U | | 0.000277 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Vinyl acetate | U | | 0.00249 | 0.0104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Vinyl chloride | 0.000368 J | J | 0.000303 | 0.00104 | 1 | 08/19/2017 02:31 | WG1011219 |
| Xylenes, Total | U | | 0.000726 | 0.00312 | 1 | 08/19/2017 02:31 | WG1011219 |
| *(S) Toluene-d8* | *112* | | | *80.0-120* | | *08/19/2017 02:31* | WG1011219 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/19/2017 02:31* | WG1011219 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *08/19/2017 02:31* | WG1011219 |

JC 9/13/17

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 | 1 | 08/20/2017 16:07 | WG1011763 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.4* | | | *77.0-122* | | *08/20/2017 16:07* | WG1011763 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | J0 J3 | 1.05 | 25.0 | 1 | 08/17/2017 22:38 | WG1010972 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 08/17/2017 22:38 | WG1010972 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Dichlorodifluoromethane | U | J0 | 0.127 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 08/17/2017 22:38 | WG1010972 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 2-Butanone (MEK) | U | J0 | 1.28 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |

JC 9/13/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Styrene | U | | 0.117 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Toluene | U | | 0.412 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 08/17/2017 22:38 | WG1010972 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 08/17/2017 22:38 | WG1010972 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 08/17/2017 22:38 | WG1010972 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *08/17/2017 22:38* | WG1010972 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *08/17/2017 22:38* | WG1010972 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *80.0-120* | | *08/17/2017 22:38* | WG1010972 |

JC 9/13/17

# ANALYTICAL REPORT

August 24, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L930317 |
| Samples Received: | 08/17/2017 |
| Project Number: | |
| Description: | American Linen Project |

Report To: Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## MW-133-85 L930317-01 Solid

Collected by: Shannon McKernan | Collected date/time: 08/15/17 15:40 | Received date/time: 08/17/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1012110 | 1 | 08/22/17 10:45 | 08/22/17 10:58 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1012776 | 1 | 08/15/17 15:40 | 08/23/17 17:19 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 25 | 08/15/17 15:40 | 08/23/17 18:27 | ACG |

## MW-133-95 L930317-02 Solid

Collected by: Shannon McKernan | Collected date/time: 08/16/17 08:50 | Received date/time: 08/17/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1012110 | 1 | 08/22/17 10:45 | 08/22/17 10:58 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1012776 | 1 | 08/16/17 08:50 | 08/23/17 17:40 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 1 | 08/16/17 08:50 | 08/23/17 03:39 | ACG |

## MW-133-105 L930317-03 Solid

Collected by: Shannon McKernan | Collected date/time: 08/16/17 10:45 | Received date/time: 08/17/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1012110 | 1 | 08/22/17 10:45 | 08/22/17 10:58 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1012776 | 1 | 08/16/17 10:45 | 08/23/17 18:02 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 1 | 08/16/17 10:45 | 08/23/17 03:59 | ACG |

## MW-133-120 L930317-04 Solid

Collected by: Shannon McKernan | Collected date/time: 08/16/17 11:45 | Received date/time: 08/17/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1012110 | 1 | 08/22/17 10:45 | 08/22/17 10:58 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1012776 | 1 | 08/16/17 11:45 | 08/23/17 18:23 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 25 | 08/16/17 11:45 | 08/23/17 18:48 | ACG |

## MW-133-130 L930317-05 Solid

Collected by: Shannon McKernan | Collected date/time: 08/16/17 14:20 | Received date/time: 08/17/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1012110 | 1 | 08/22/17 10:45 | 08/22/17 10:58 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1012776 | 1 | 08/16/17 14:20 | 08/23/17 18:44 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 1 | 08/16/17 14:20 | 08/23/17 04:41 | ACG |

## MW-133-135 L930317-06 Solid

Collected by: Shannon McKernan | Collected date/time: 08/16/17 15:00 | Received date/time: 08/17/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1012110 | 1 | 08/22/17 10:45 | 08/22/17 10:58 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1012776 | 25 | 08/16/17 15:00 | 08/24/17 13:28 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 1 | 08/16/17 15:00 | 08/23/17 05:01 | ACG |

## MW-133-90-W L930317-07 GW

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 08/15/17 17:05 | 08/17/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1012440 | 1 | 08/23/17 04:12 | 08/23/17 04:12 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1011540 | 5 | 08/19/17 13:35 | 08/19/17 13:35 | JAH |

## TRIP BLANK L930317-08 GW

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 03/27/17 00:00 | 08/17/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1012440 | 1 | 08/22/17 21:07 | 08/22/17 21:07 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1011540 | 1 | 08/19/17 11:36 | 08/19/17 11:36 | JAH |

All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Sample Handling and Receiving

**VOC pH outside of method requirement.**

| ESC Sample ID | Project Sample ID | Method |
|---|---|---|
| L930317-07 | MW-133-90-W | NWTPHGX |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.3 | | 1 | 08/22/2017 10:58 | WG1012110 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.28 | | 0.0397 | 0.117 | 1 | 08/23/2017 17:19 | WG1012776 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *08/23/2017 17:19* | WG1012776 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.293 | 1.47 | 25 | 08/23/2017 18:27 | WG1012508 |
| Acrylonitrile | U | | 0.0525 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Benzene | U | | 0.00791 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Bromobenzene | U | | 0.00832 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Bromodichloromethane | U | | 0.00744 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Bromochloromethane | U | | 0.0114 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| Bromoform | U | | 0.0124 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Bromomethane | U | | 0.0393 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| n-Butylbenzene | U | | 0.00756 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| sec-Butylbenzene | U | | 0.00588 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| tert-Butylbenzene | U | | 0.00604 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Carbon disulfide | U | | 0.00647 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Carbon tetrachloride | U | | 0.00961 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Chlorobenzene | U | | 0.00621 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Chlorodibromomethane | U | | 0.0109 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Chloroethane | U | | 0.0277 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| Chloroform | U | | 0.00671 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| Chloromethane | U | | 0.0110 | 0.0733 | 25 | 08/23/2017 18:27 | WG1012508 |
| 2-Chlorotoluene | U | | 0.00882 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 4-Chlorotoluene | U | | 0.00703 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0307 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.0101 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Dibromomethane | U | | 0.0112 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.00893 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.00701 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.00662 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.0209 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.00584 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.00776 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.00889 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| cis-1,2-Dichloroethene | 0.0717 | | 0.00689 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.00774 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.0105 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.00928 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.00607 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.00768 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.00783 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.0227 | 0.0733 | 25 | 08/23/2017 18:27 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.00818 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Di-isopropyl ether | U | | 0.00727 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Ethylbenzene | U | | 0.00870 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.0100 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 2-Hexanone | U | | 0.0401 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 |
| n-Hexane | U | | 0.00850 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0741 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Isopropylbenzene | U | | 0.00713 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| p-Isopropyltoluene | U | | 0.00598 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.137 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Methylene Chloride | U | | 0.0293 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0551 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Methyl tert-butyl ether | 0.0772 | | 0.00621 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Naphthalene | U | | 0.0293 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| n-Propylbenzene | U | | 0.00604 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Styrene | U | | 0.00686 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00774 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0107 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0107 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Tetrachloroethene | 2.28 | | 0.00809 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Toluene | 0.580 | | 0.0127 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.00897 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.0114 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.00838 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.00811 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Trichloroethene | 0.146 | | 0.00818 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Trichlorofluoromethane | U | | 0.0112 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.0217 | 0.0733 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.00619 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.00842 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.00780 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Vinyl acetate | U | | 0.0701 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Vinyl chloride | U | | 0.00853 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Xylenes, Total | U | | 0.0204 | 0.0879 | 25 | 08/23/2017 18:27 | WG1012508 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *08/23/2017 18:27* | WG1012508 |
| *(S) Dibromofluoromethane* | *98.9* | | | *74.0-131* | | *08/23/2017 18:27* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *95.5* | | | *64.0-132* | | *08/23/2017 18:27* | WG1012508 |

**Sample Narrative:**

L930317-01 WG1012508: No low level sodium bisulfite vials remaining. Reporting at the lowest possible dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.8 | | 1 | 08/22/2017 10:58 | WG1012110 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.0572 | B J | 0.0395 | 0.116 | 1 | 08/23/2017 17:40 | WG1012776 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.1* | | | *77.0-120* | | *08/23/2017 17:40* | WG1012776 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0582 | 1 | 08/23/2017 03:39 | WG1012508 |
| Acrylonitrile | U | | 0.00209 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Benzene | U | | 0.000315 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Bromobenzene | U | | 0.000331 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Bromodichloromethane | U | | 0.000296 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Bromochloromethane | U | | 0.000454 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| Bromoform | U | | 0.000494 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Bromomethane | U | | 0.00156 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| n-Butylbenzene | U | | 0.000301 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| sec-Butylbenzene | U | | 0.000234 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| tert-Butylbenzene | U | | 0.000240 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Carbon disulfide | U | | 0.000257 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Carbon tetrachloride | U | | 0.000382 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Chlorobenzene | U | | 0.000247 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Chlorodibromomethane | U | | 0.000435 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Chloroethane | U | | 0.00110 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| Chloroform | U | | 0.000267 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| Chloromethane | U | | 0.000437 | 0.00291 | 1 | 08/23/2017 03:39 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000351 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000280 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000400 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Dibromomethane | U | | 0.000445 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000278 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000263 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000831 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000232 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000309 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000353 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| cis-1,2-Dichloroethene | U | | 0.000274 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000308 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000417 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000369 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000241 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000305 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000311 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000906 | 0.00291 | 1 | 08/23/2017 03:39 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000325 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Di-isopropyl ether | U | | 0.000289 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Ethylbenzene | U | | 0.000346 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000398 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 2-Hexanone | U | | 0.00160 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |
| n-Hexane | U | | 0.000338 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00295 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Isopropylbenzene | U | | 0.000283 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000238 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00545 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Methylene Chloride | U | | 0.00116 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00219 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000247 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Naphthalene | U | | 0.00116 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| n-Propylbenzene | U | | 0.000240 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Styrene | U | | 0.000273 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000308 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000425 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000425 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Tetrachloroethene | 0.00127 | | 0.000322 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Toluene | U | | 0.000506 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000356 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000452 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000333 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000323 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Trichloroethene | U | | 0.000325 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000445 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000863 | 0.00291 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000246 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000334 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000310 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Vinyl acetate | U | | 0.00278 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Vinyl chloride | U | | 0.000339 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Xylenes, Total | U | | 0.000813 | 0.00349 | 1 | 08/23/2017 03:39 | WG1012508 |
| *(S) Toluene-d8* | *98.9* | | | *80.0-120* | | *08/23/2017 03:39* | WG1012508 |
| *(S) Dibromofluoromethane* | *99.6* | | | *74.0-131* | | *08/23/2017 03:39* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *98.3* | | | *64.0-132* | | *08/23/2017 03:39* | WG1012508 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.1 | | 1 | 08/22/2017 10:58 | WG1012110 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.0849 | B J | 0.0408 | 0.120 | 1 | 08/23/2017 18:02 | WG1012776 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-120* | | *08/23/2017 18:02* | WG1012776 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0120 | 0.0602 | 1 | 08/23/2017 03:59 | WG1012508 |
| Acrylonitrile | U | | 0.00216 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Benzene | U | | 0.000325 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Bromobenzene | U | | 0.000342 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Bromodichloromethane | U | | 0.000306 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Bromochloromethane | U | | 0.000470 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| Bromoform | U | | 0.000511 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Bromomethane | U | | 0.00161 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| n-Butylbenzene | U | | 0.000311 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| sec-Butylbenzene | U | | 0.000242 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| tert-Butylbenzene | U | | 0.000248 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Carbon disulfide | U | | 0.000266 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Carbon tetrachloride | U | | 0.000395 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Chlorobenzene | U | | 0.000255 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Chlorodibromomethane | U | | 0.000449 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Chloroethane | U | | 0.00114 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| Chloroform | U | | 0.000276 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| Chloromethane | U | | 0.000452 | 0.00301 | 1 | 08/23/2017 03:59 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000362 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000289 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000413 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Dibromomethane | U | | 0.000460 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000288 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000272 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000858 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000240 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000319 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000365 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| cis-1,2-Dichloroethene | U | | 0.000283 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000318 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000431 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000382 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000249 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000315 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000321 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000937 | 0.00301 | 1 | 08/23/2017 03:59 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000336 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Di-isopropyl ether | U | | 0.000299 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Ethylbenzene | U | | 0.000358 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000412 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 2-Hexanone | U | | 0.00165 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |
| n-Hexane | U | | 0.000349 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00305 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Isopropylbenzene | U | | 0.000293 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000246 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00563 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Methylene Chloride | U | | 0.00120 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00226 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000255 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Naphthalene | U | | 0.00120 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| n-Propylbenzene | U | | 0.000248 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Styrene | U | | 0.000282 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000318 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000439 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000439 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Tetrachloroethene | 0.000345 | J | 0.000332 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Toluene | U | | 0.000523 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000368 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000467 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000344 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000334 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Trichloroethene | U | | 0.000336 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000460 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000892 | 0.00301 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000254 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000346 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000320 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Vinyl acetate | U | | 0.00288 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Vinyl chloride | U | | 0.000350 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Xylenes, Total | U | | 0.000840 | 0.00361 | 1 | 08/23/2017 03:59 | WG1012508 |
| *(S) Toluene-d8* | *98.0* | | | *80.0-120* | | *08/23/2017 03:59* | WG1012508 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *08/23/2017 03:59* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *96.1* | | | *64.0-132* | | *08/23/2017 03:59* | WG1012508 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.0 | | 1 | 08/22/2017 10:58 | WG1012110 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.0964 | B J | 0.0368 | 0.109 | 1 | 08/23/2017 18:23 | WG1012776 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.3* | | | *77.0-120* | | *08/23/2017 18:23* | WG1012776 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.272 | 1.36 | 25 | 08/23/2017 18:48 | WG1012508 |
| Acrylonitrile | U | | 0.0487 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Benzene | U | | 0.00734 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Bromobenzene | U | | 0.00772 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Bromodichloromethane | U | | 0.00690 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Bromochloromethane | U | | 0.0106 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| Bromoform | U | | 0.0115 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Bromomethane | U | | 0.0364 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| n-Butylbenzene | U | | 0.00701 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| sec-Butylbenzene | U | | 0.00546 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| tert-Butylbenzene | U | | 0.00560 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Carbon disulfide | U | | 0.00600 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Carbon tetrachloride | U | | 0.00891 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Chlorobenzene | U | | 0.00576 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Chlorodibromomethane | U | | 0.0101 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Chloroethane | U | | 0.0256 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| Chloroform | U | | 0.00622 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| Chloromethane | U | | 0.0102 | 0.0679 | 25 | 08/23/2017 18:48 | WG1012508 |
| 2-Chlorotoluene | U | | 0.00817 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 4-Chlorotoluene | U | | 0.00652 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0285 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.00933 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Dibromomethane | U | | 0.0104 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.00828 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.00650 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.00614 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.0193 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.00541 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.00719 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.00824 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| cis-1,2-Dichloroethene | U | | 0.00639 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.00717 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.00973 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.00861 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.00563 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.00712 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.00726 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.0211 | 0.0679 | 25 | 08/23/2017 18:48 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.00759 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Di-isopropyl ether | U | | 0.00674 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Ethylbenzene | U | | 0.00806 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.00929 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 2-Hexanone | U | | 0.0372 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |
| n-Hexane | U | | 0.00788 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0687 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Isopropylbenzene | U | | 0.00661 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| p-Isopropyltoluene | U | | 0.00554 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.127 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Methylene Chloride | U | | 0.0272 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0511 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Methyl tert-butyl ether | 0.0760 | | 0.00576 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Naphthalene | U | | 0.0272 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| n-Propylbenzene | U | | 0.00560 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Styrene | U | | 0.00636 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00717 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00991 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00991 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Tetrachloroethene | U | | 0.00750 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Toluene | U | | 0.0117 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.00831 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.0105 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.00777 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.00752 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Trichloroethene | U | | 0.00759 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Trichlorofluoromethane | U | | 0.0104 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.0201 | 0.0679 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.00574 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.00780 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.00723 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Vinyl acetate | U | | 0.0650 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Vinyl chloride | U | | 0.00791 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Xylenes, Total | U | | 0.0189 | 0.0815 | 25 | 08/23/2017 18:48 | WG1012508 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *08/23/2017 18:48* | WG1012508 |
| *(S) Dibromofluoromethane* | *98.1* | | | *74.0-131* | | *08/23/2017 18:48* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *08/23/2017 18:48* | WG1012508 |

**Sample Narrative:**

L930317-04 WG1012508: No low level sodium bisulfite vials remaining. Reporting at the lowest possible dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.9 | | 1 | 08/22/2017 10:58 | WG1012110 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.109 | B J | 0.0404 | 0.119 | 1 | 08/23/2017 18:44 | WG1012776 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.1* | | | *77.0-120* | | *08/23/2017 18:44* | WG1012776 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0119 | 0.0596 | 1 | 08/23/2017 04:41 | WG1012508 |
| Acrylonitrile | U | | 0.00213 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Benzene | U | | 0.000322 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Bromobenzene | U | | 0.000338 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Bromodichloromethane | U | | 0.000303 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Bromochloromethane | U | | 0.000465 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| Bromoform | U | | 0.000505 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Bromomethane | U | | 0.00160 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| n-Butylbenzene | U | | 0.000307 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| sec-Butylbenzene | U | | 0.000239 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| tert-Butylbenzene | U | | 0.000245 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Carbon disulfide | U | | 0.000263 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Carbon tetrachloride | U | | 0.000391 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Chlorobenzene | U | | 0.000253 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Chlorodibromomethane | U | | 0.000444 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Chloroethane | U | | 0.00113 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| Chloroform | U | | 0.000273 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| Chloromethane | U | | 0.000447 | 0.00298 | 1 | 08/23/2017 04:41 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000359 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000286 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000409 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Dibromomethane | U | | 0.000455 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000363 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000285 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000269 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000849 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000237 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000316 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000361 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| cis-1,2-Dichloroethene | 0.000888 | J | 0.000280 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000314 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000426 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000378 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000247 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000312 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000318 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000927 | 0.00298 | 1 | 08/23/2017 04:41 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000332 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Di-isopropyl ether | U | | 0.000295 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Ethylbenzene | U | | 0.000354 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000407 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 2-Hexanone | U | | 0.00163 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |
| n-Hexane | 0.00262 | J | 0.000345 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00301 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Isopropylbenzene | U | | 0.000289 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000243 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00558 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Methylene Chloride | U | | 0.00119 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00224 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000253 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Naphthalene | U | | 0.00119 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| n-Propylbenzene | U | | 0.000245 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Styrene | U | | 0.000279 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000314 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000435 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000435 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Tetrachloroethene | 0.0119 | | 0.000329 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Toluene | U | | 0.000517 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000365 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000462 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000341 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000330 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Trichloroethene | 0.00354 | | 0.000332 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000455 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000883 | 0.00298 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000251 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000342 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000317 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Vinyl acetate | U | | 0.00285 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Vinyl chloride | U | | 0.000347 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Xylenes, Total | U | | 0.000832 | 0.00357 | 1 | 08/23/2017 04:41 | WG1012508 |
| *(S) Toluene-d8* | *96.9* | | | *80.0-120* | | *08/23/2017 04:41* | WG1012508 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *08/23/2017 04:41* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *97.4* | | | *64.0-132* | | *08/23/2017 04:41* | WG1012508 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.3 | | 1 | 08/22/2017 10:58 | WG1012110 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 15.3 | B | 0.961 | 2.83 | 25 | 08/24/2017 13:28 | WG1012776 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.8* | | | *77.0-120* | | *08/24/2017 13:28* | WG1012776 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0172 | J | 0.0113 | 0.0566 | 1 | 08/23/2017 05:01 | WG1012508 |
| Acrylonitrile | U | | 0.00203 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Benzene | 0.00369 | | 0.000306 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Bromobenzene | U | | 0.000322 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Bromodichloromethane | U | | 0.000288 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Bromochloromethane | U | | 0.000442 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| Bromoform | U | | 0.000480 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Bromomethane | U | | 0.00152 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| n-Butylbenzene | 0.000535 | J | 0.000292 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| sec-Butylbenzene | U | | 0.000228 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| tert-Butylbenzene | U | | 0.000233 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Carbon disulfide | U | | 0.000250 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Carbon tetrachloride | U | | 0.000372 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Chlorobenzene | U | | 0.000240 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Chlorodibromomethane | U | | 0.000423 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Chloroethane | U | | 0.00107 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| Chloroform | U | | 0.000259 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| Chloromethane | U | | 0.000425 | 0.00283 | 1 | 08/23/2017 05:01 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000341 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000272 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000389 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Dibromomethane | U | | 0.000433 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000271 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000808 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000300 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000343 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| cis-1,2-Dichloroethene | 0.000836 | J | 0.000266 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000299 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000406 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000359 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000297 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000302 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000881 | 0.00283 | 1 | 08/23/2017 05:01 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000316 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Di-isopropyl ether | U | | 0.000281 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Ethylbenzene | 0.00179 | | 0.000336 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000387 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |
| n-Hexane | 0.100 | | 0.000329 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00287 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Isopropylbenzene | U | | 0.000275 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000231 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 2-Butanone (MEK) | 0.0156 | | 0.00530 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Methylene Chloride | U | | 0.00113 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00213 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000240 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Naphthalene | U | | 0.00113 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| n-Propylbenzene | 0.000915 | J | 0.000233 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Styrene | 0.000429 | J | 0.000265 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000299 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000413 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000413 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Tetrachloroethene | 0.0107 | | 0.000313 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Toluene | 0.0119 | | 0.000492 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000347 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000440 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000324 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000314 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Trichloroethene | 0.000965 | J | 0.000316 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000433 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000839 | 0.00283 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2,4-Trimethylbenzene | 0.000845 | J | 0.000239 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000325 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000301 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Vinyl acetate | U | | 0.00271 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Vinyl chloride | U | | 0.000330 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Xylenes, Total | 0.00392 | | 0.000791 | 0.00340 | 1 | 08/23/2017 05:01 | WG1012508 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/23/2017 05:01* | WG1012508 |
| *(S) Dibromofluoromethane* | *98.8* | | | *74.0-131* | | *08/23/2017 05:01* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *99.5* | | | *64.0-132* | | *08/23/2017 05:01* | WG1012508 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 2210 | | 31.6 | 100 | 1 | 08/23/2017 04:12 | WG1012440 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *113* | | | *77.0-122* | | *08/23/2017 04:12* | WG1012440 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 32.2 | J | 5.25 | 125 | 5 | 08/19/2017 13:35 | WG1011540 |
| Acrylonitrile | U | | 4.36 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| Benzene | 64.3 | | 0.448 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Bromobenzene | U | | 0.665 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Bromodichloromethane | U | | 0.400 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Bromochloromethane | U | | 0.725 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Bromoform | U | | 0.930 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Bromomethane | U | | 0.785 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| n-Butylbenzene | U | | 0.715 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| sec-Butylbenzene | U | | 0.670 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| tert-Butylbenzene | U | | 0.915 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Carbon disulfide | U | | 0.505 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Carbon tetrachloride | U | | 0.795 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Chlorobenzene | U | | 0.700 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Chlorodibromomethane | U | | 0.640 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Chloroethane | 1.81 | J | 0.705 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| Chloroform | U | | 0.430 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Chloromethane | 55.9 | | 0.765 | 6.25 | 5 | 08/19/2017 13:35 | WG1011540 |
| 2-Chlorotoluene | U | | 0.555 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 4-Chlorotoluene | U | | 0.486 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.62 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2-Dibromoethane | U | | 0.965 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Dibromomethane | U | | 0.585 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2-Dichlorobenzene | U | | 0.505 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,3-Dichlorobenzene | U | | 0.650 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,4-Dichlorobenzene | U | | 0.605 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Dichlorodifluoromethane | U | | 0.635 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1-Dichloroethane | U | | 0.570 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2-Dichloroethane | U | | 0.540 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1-Dichloroethene | U | | 0.940 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| cis-1,2-Dichloroethene | 22.2 | | 0.466 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| trans-1,2-Dichloroethene | U | | 0.760 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2-Dichloropropane | U | | 0.950 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1-Dichloropropene | U | | 0.640 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,3-Dichloropropane | U | | 0.735 | 5.00 | 5 | 08/19/2017 13:35 | WG1011540 |
| cis-1,3-Dichloropropene | U | | 0.488 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| trans-1,3-Dichloropropene | U | | 1.11 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| trans-1,4-Dichloro-2-butene | U | | 1.28 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| 2,2-Dichloropropane | U | | 0.464 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Di-isopropyl ether | U | | 0.462 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Ethylbenzene | 1.44 | J | 0.790 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Hexachloro-1,3-butadiene | U | | 0.785 | 5.00 | 5 | 08/19/2017 13:35 | WG1011540 |
| 2-Hexanone | 18.6 | J | 3.78 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| n-Hexane | 2.91 | J | 1.52 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| Iodomethane | U | | 1.88 | 50.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| Isopropylbenzene | U | | 0.630 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| p-Isopropyltoluene | U | | 0.690 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 2-Butanone (MEK) | 13.6 | J | 6.40 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 5.35 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| 4-Methyl-2-pentanone (MIBK) | U | | 4.12 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| Methyl tert-butyl ether | U | | 0.510 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Naphthalene | 2.88 | B J | 0.870 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| n-Propylbenzene | U | | 0.810 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Styrene | U | | 0.585 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1,1,2-Tetrachloroethane | U | | 0.600 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1,2,2-Tetrachloroethane | U | | 0.650 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.820 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Tetrachloroethene | 413 | | 0.995 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Toluene | 711 | | 2.06 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2,3-Trichlorobenzene | U | | 0.820 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2,4-Trichlorobenzene | U | | 1.78 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1,1-Trichloroethane | U | | 0.470 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1,2-Trichloroethane | U | | 0.930 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Trichloroethene | 34.4 | | 0.765 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Trichlorofluoromethane | U | | 0.650 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2,3-Trichloropropane | U | | 1.24 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2,4-Trimethylbenzene | 0.746 | B J | 0.615 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2,3-Trimethylbenzene | U | | 0.370 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,3,5-Trimethylbenzene | U | | 0.620 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Vinyl acetate | U | | 3.22 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| Vinyl chloride | 1.56 | J | 0.590 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Xylenes, Total | 2.92 | J | 1.58 | 7.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *08/19/2017 13:35* | WG1011540 |
| *(S) Dibromofluoromethane* | *96.0* | | | *76.0-123* | | *08/19/2017 13:35* | WG1011540 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *80.0-120* | | *08/19/2017 13:35* | WG1011540 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 | 1 | 08/22/2017 21:07 | WG1012440 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.8* | | | *77.0-122* | | *08/22/2017 21:07* | WG1012440 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1.05 | 25.0 | 1 | 08/19/2017 11:36 | WG1011540 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 08/19/2017 11:36 | WG1011540 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 08/19/2017 11:36 | WG1011540 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Naphthalene | 0.211 | B J | 0.174 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Styrene | U | | 0.117 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Toluene | U | | 0.412 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *08/19/2017 11:36* | WG1011540 |
| *(S) Dibromofluoromethane* | *98.2* | | | *76.0-123* | | *08/19/2017 11:36* | WG1011540 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *08/19/2017 11:36* | WG1011540 |

## Method Blank (MB)

(MB) R3243530-1 08/22/17 10:58

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00120 | | | |

## L930307-08 Original Sample (OS) • Duplicate (DUP)

(OS) L930307-08 08/22/17 10:58 • (DUP) R3243530-3 08/22/17 10:58

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 84.1 | 83.7 | 1 | 0.460 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3243530-2 08/22/17 10:58

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 99.9 | 85.0-115 | |

## Method Blank (MB)

(MB) R3243913-3 08/22/17 17:03

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.3* | | | *77.0-122* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243913-1 08/22/17 15:56 • (LCSD) R3243913-2 08/22/17 16:18

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 5540 | 5650 | 101 | 103 | 72.0-134 | | | 2.09 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *104* | *105* | *77.0-122* | | | | |

## L930317-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L930317-07 08/23/17 04:12 • (MS) R3243913-4 08/23/17 04:34 • (MSD) R3243913-5 08/23/17 04:56

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 2210 | 4490 | 4550 | 41.5 | 42.6 | 1 | 23.0-159 | | | 1.34 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *115* | *114* | | *77.0-122* | | | | |

## Method Blank (MB)

(MB) R3243841-3 08/23/17 11:37

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 0.0672 | J | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243841-1 08/23/17 10:34 • (LCSD) R3243841-2 08/23/17 10:55

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | 5.64 | 4.89 | 103 | 88.9 | 70.0-133 | | | 14.2 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *89.6* | *94.3* | *77.0-120* | | | | |

## L930317-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L930317-03 08/23/17 18:02 • (MS) R3243841-4 08/23/17 19:48 • (MSD) R3243841-5 08/23/17 20:09

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 6.62 | 0.0849 | 4.64 | 5.51 | 68.7 | 82.0 | 1 | 10.0-146 | | | 17.3 | 30 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *91.5* | *86.9* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3243014-4 08/19/17 10:56

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3243014-4 08/19/17 10:56

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | 0.436 | J | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | 0.145 | J | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *98.6* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *104* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243014-1 08/19/17 09:39 • (LCSD) R3243014-2 08/19/17 09:58

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 120 | 117 | 96.4 | 93.4 | 10.0-160 | | | 3.19 | 23 |
| Acrylonitrile | 125 | 102 | 106 | 81.8 | 84.9 | 60.0-142 | | | 3.78 | 20 |
| Benzene | 25.0 | 23.7 | 24.1 | 94.8 | 96.5 | 69.0-123 | | | 1.82 | 20 |
| Bromobenzene | 25.0 | 24.6 | 23.9 | 98.2 | 95.6 | 79.0-120 | | | 2.74 | 20 |
| Bromodichloromethane | 25.0 | 24.4 | 24.5 | 97.5 | 97.9 | 76.0-120 | | | 0.490 | 20 |
| Bromochloromethane | 25.0 | 23.1 | 23.9 | 92.2 | 95.6 | 76.0-122 | | | 3.54 | 20 |
| Bromoform | 25.0 | 25.2 | 24.5 | 101 | 98.0 | 67.0-132 | | | 2.67 | 20 |
| Bromomethane | 25.0 | 21.7 | 22.5 | 86.8 | 90.2 | 18.0-160 | | | 3.78 | 20 |
| n-Butylbenzene | 25.0 | 24.6 | 25.2 | 98.4 | 101 | 72.0-126 | | | 2.22 | 20 |
| sec-Butylbenzene | 25.0 | 25.0 | 25.2 | 100 | 101 | 74.0-121 | | | 0.480 | 20 |
| tert-Butylbenzene | 25.0 | 24.8 | 25.3 | 99.2 | 101 | 75.0-122 | | | 2.03 | 20 |
| Carbon disulfide | 25.0 | 24.0 | 24.6 | 96.1 | 98.5 | 55.0-127 | | | 2.48 | 20 |
| Carbon tetrachloride | 25.0 | 22.9 | 23.4 | 91.5 | 93.5 | 63.0-122 | | | 2.23 | 20 |
| Chlorobenzene | 25.0 | 25.3 | 25.1 | 101 | 101 | 79.0-121 | | | 0.490 | 20 |
| Chlorodibromomethane | 25.0 | 24.4 | 24.8 | 97.7 | 99.2 | 75.0-125 | | | 1.47 | 20 |
| Chloroethane | 25.0 | 23.3 | 24.0 | 93.2 | 96.2 | 47.0-152 | | | 3.15 | 20 |
| Chloroform | 25.0 | 23.2 | 23.9 | 92.7 | 95.8 | 72.0-121 | | | 3.29 | 20 |
| Chloromethane | 25.0 | 23.5 | 24.1 | 94.1 | 96.4 | 48.0-139 | | | 2.39 | 20 |
| 2-Chlorotoluene | 25.0 | 25.1 | 24.7 | 100 | 98.9 | 74.0-122 | | | 1.46 | 20 |
| 4-Chlorotoluene | 25.0 | 25.6 | 24.8 | 103 | 99.0 | 79.0-120 | | | 3.52 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 21.9 | 22.3 | 87.5 | 89.2 | 64.0-127 | | | 1.99 | 20 |
| 1,2-Dibromoethane | 25.0 | 24.4 | 24.3 | 97.7 | 97.3 | 77.0-123 | | | 0.430 | 20 |
| Dibromomethane | 25.0 | 24.0 | 24.4 | 96.0 | 97.6 | 78.0-120 | | | 1.62 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 23.8 | 24.2 | 95.4 | 96.9 | 80.0-120 | | | 1.53 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 25.0 | 24.8 | 99.8 | 99.1 | 72.0-123 | | | 0.740 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 24.6 | 24.6 | 98.3 | 98.4 | 77.0-120 | | | 0.0900 | 20 |
| Dichlorodifluoromethane | 25.0 | 25.9 | 26.6 | 104 | 106 | 49.0-155 | | | 2.53 | 20 |
| 1,1-Dichloroethane | 25.0 | 24.1 | 24.6 | 96.3 | 98.3 | 70.0-126 | | | 2.06 | 20 |
| 1,2-Dichloroethane | 25.0 | 23.4 | 23.8 | 93.5 | 95.1 | 67.0-126 | | | 1.70 | 20 |
| 1,1-Dichloroethene | 25.0 | 24.6 | 25.2 | 98.3 | 101 | 64.0-129 | | | 2.34 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 23.3 | 24.2 | 93.1 | 96.7 | 73.0-120 | | | 3.86 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 23.5 | 24.0 | 93.9 | 96.1 | 71.0-121 | | | 2.39 | 20 |
| 1,2-Dichloropropane | 25.0 | 25.7 | 25.0 | 103 | 100 | 75.0-125 | | | 2.58 | 20 |
| 1,1-Dichloropropene | 25.0 | 24.3 | 25.0 | 97.1 | 100 | 71.0-129 | | | 2.98 | 20 |
| 1,3-Dichloropropane | 25.0 | 25.1 | 24.6 | 100 | 98.5 | 80.0-121 | | | 1.87 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 25.0 | 25.5 | 100 | 102 | 79.0-123 | | | 2.06 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 25.5 | 25.4 | 102 | 101 | 74.0-127 | | | 0.380 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 24.7 | 24.5 | 98.7 | 98.0 | 55.0-134 | | | 0.670 | 20 |
| 2,2-Dichloropropane | 25.0 | 23.9 | 24.4 | 95.5 | 97.6 | 60.0-125 | | | 2.20 | 20 |
| Di-isopropyl ether | 25.0 | 23.4 | 24.1 | 93.8 | 96.3 | 59.0-133 | | | 2.59 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243014-1 08/19/17 09:39 • (LCSD) R3243014-2 08/19/17 09:58

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 25.3 | 25.0 | 101 | 100 | 77.0-120 | | | 1.24 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 22.8 | 24.2 | 91.1 | 96.7 | 64.0-131 | | | 5.98 | 20 |
| 2-Hexanone | 125 | 118 | 122 | 94.5 | 97.4 | 58.0-147 | | | 3.06 | 20 |
| n-Hexane | 25.0 | 24.3 | 24.5 | 97.3 | 98.0 | 56.0-124 | | | 0.690 | 20 |
| Iodomethane | 125 | 120 | 123 | 96.1 | 98.1 | 57.0-140 | | | 2.04 | 20 |
| Isopropylbenzene | 25.0 | 25.5 | 25.5 | 102 | 102 | 75.0-120 | | | 0.240 | 20 |
| p-Isopropyltoluene | 25.0 | 24.6 | 25.0 | 98.4 | 99.8 | 74.0-126 | | | 1.50 | 20 |
| 2-Butanone (MEK) | 125 | 115 | 116 | 91.7 | 92.4 | 37.0-158 | | | 0.820 | 20 |
| Methylene Chloride | 25.0 | 22.6 | 23.3 | 90.3 | 93.2 | 66.0-121 | | | 3.15 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 113 | 115 | 90.4 | 92.2 | 59.0-143 | | | 1.99 | 20 |
| Methyl tert-butyl ether | 25.0 | 22.7 | 23.0 | 90.9 | 92.1 | 64.0-123 | | | 1.30 | 20 |
| Naphthalene | 25.0 | 21.7 | 22.6 | 86.8 | 90.5 | 62.0-128 | | | 4.25 | 20 |
| n-Propylbenzene | 25.0 | 25.5 | 25.3 | 102 | 101 | 79.0-120 | | | 0.790 | 20 |
| Styrene | 25.0 | 26.3 | 25.3 | 105 | 101 | 78.0-124 | | | 4.09 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 23.7 | 24.9 | 94.7 | 99.6 | 75.0-122 | | | 5.00 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 23.9 | 23.8 | 95.5 | 95.1 | 71.0-122 | | | 0.450 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 25.5 | 26.4 | 102 | 106 | 61.0-136 | | | 3.64 | 20 |
| Tetrachloroethene | 25.0 | 24.8 | 24.5 | 99.3 | 98.2 | 70.0-127 | | | 1.15 | 20 |
| Toluene | 25.0 | 24.2 | 24.4 | 96.8 | 97.7 | 77.0-120 | | | 0.870 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 22.8 | 24.2 | 91.1 | 96.7 | 61.0-133 | | | 5.92 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 23.3 | 24.3 | 93.4 | 97.2 | 69.0-129 | | | 4.07 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 24.0 | 24.7 | 96.1 | 98.7 | 68.0-122 | | | 2.69 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 24.5 | 24.3 | 98.0 | 97.1 | 78.0-120 | | | 0.960 | 20 |
| Trichloroethene | 25.0 | 24.3 | 24.6 | 97.2 | 98.5 | 78.0-120 | | | 1.34 | 20 |
| Trichlorofluoromethane | 25.0 | 23.4 | 24.5 | 93.5 | 98.2 | 56.0-137 | | | 4.81 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 23.9 | 23.4 | 95.7 | 93.4 | 72.0-124 | | | 2.47 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 24.3 | 24.3 | 97.3 | 97.3 | 75.0-120 | | | 0.0300 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 23.4 | 23.9 | 93.8 | 95.6 | 75.0-120 | | | 2.00 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 24.4 | 24.7 | 97.8 | 98.6 | 75.0-120 | | | 0.870 | 20 |
| Vinyl acetate | 125 | 134 | 136 | 107 | 109 | 46.0-160 | | | 1.10 | 20 |
| Vinyl chloride | 25.0 | 24.1 | 24.7 | 96.3 | 99.0 | 64.0-133 | | | 2.69 | 20 |
| Xylenes, Total | 75.0 | 75.0 | 75.2 | 100 | 100 | 77.0-120 | | | 0.270 | 20 |
| *(S) Toluene-d8* | | | | *106* | *107* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *95.6* | *99.3* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *106* | *102* | *80.0-120* | | | | |

## Method Blank (MB)

(MB) R3243686-4 08/23/17 01:35

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3243686-4 08/23/17 01:35

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | 0.00316 | J | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *97.2* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *95.5* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243686-1 08/22/17 22:27 • (LCSD) R3243686-2 08/23/17 00:00

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.103 | 0.113 | 82.6 | 90.0 | 11.0-160 | | | 8.64 | 23 |
| Acrylonitrile | 0.125 | 0.122 | 0.114 | 97.2 | 91.4 | 61.0-143 | | | 6.22 | 20 |
| Benzene | 0.0250 | 0.0243 | 0.0236 | 97.2 | 94.4 | 71.0-124 | | | 2.88 | 20 |
| Bromobenzene | 0.0250 | 0.0234 | 0.0230 | 93.7 | 91.8 | 78.0-120 | | | 1.99 | 20 |
| Bromodichloromethane | 0.0250 | 0.0236 | 0.0230 | 94.5 | 92.0 | 75.0-120 | | | 2.72 | 20 |
| Bromochloromethane | 0.0250 | 0.0250 | 0.0236 | 99.9 | 94.4 | 80.0-121 | | | 5.59 | 20 |
| Bromoform | 0.0250 | 0.0234 | 0.0224 | 93.6 | 89.4 | 65.0-133 | | | 4.56 | 20 |
| Bromomethane | 0.0250 | 0.0267 | 0.0269 | 107 | 108 | 26.0-160 | | | 0.990 | 20 |
| n-Butylbenzene | 0.0250 | 0.0219 | 0.0247 | 87.7 | 98.9 | 73.0-126 | | | 12.0 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0230 | 0.0233 | 91.9 | 93.3 | 75.0-121 | | | 1.43 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0234 | 0.0231 | 93.7 | 92.3 | 74.0-122 | | | 1.48 | 20 |
| Carbon disulfide | 0.0250 | 0.0242 | 0.0242 | 96.9 | 96.8 | 53.0-130 | | | 0.0500 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0226 | 0.0231 | 90.5 | 92.3 | 66.0-123 | | | 1.99 | 20 |
| Chlorobenzene | 0.0250 | 0.0245 | 0.0239 | 98.2 | 95.7 | 79.0-121 | | | 2.56 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0235 | 0.0230 | 93.8 | 92.0 | 74.0-128 | | | 2.00 | 20 |
| Chloroethane | 0.0250 | 0.0267 | 0.0268 | 107 | 107 | 51.0-147 | | | 0.280 | 20 |
| Chloroform | 0.0250 | 0.0241 | 0.0236 | 96.6 | 94.3 | 73.0-123 | | | 2.39 | 20 |
| Chloromethane | 0.0250 | 0.0238 | 0.0236 | 95.2 | 94.4 | 51.0-138 | | | 0.810 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0234 | 0.0235 | 93.6 | 94.0 | 72.0-124 | | | 0.470 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0222 | 0.0230 | 88.7 | 91.8 | 78.0-120 | | | 3.50 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0250 | 0.0250 | 100 | 100 | 65.0-126 | | | 0.0600 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0256 | 0.0233 | 102 | 93.2 | 78.0-122 | | | 9.27 | 20 |
| Dibromomethane | 0.0250 | 0.0251 | 0.0232 | 100 | 92.9 | 79.0-120 | | | 7.80 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0243 | 0.0243 | 97.2 | 97.3 | 80.0-120 | | | 0.120 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0235 | 0.0250 | 94.0 | 100 | 72.0-123 | | | 6.22 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0226 | 0.0237 | 90.4 | 94.8 | 77.0-120 | | | 4.68 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0250 | 0.0264 | 100 | 106 | 68.0-126 | | | 5.31 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0233 | 0.0229 | 93.0 | 91.7 | 49.0-155 | | | 1.47 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0248 | 0.0243 | 99.1 | 97.2 | 70.0-128 | | | 1.95 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0259 | 0.0244 | 103 | 97.6 | 69.0-128 | | | 5.88 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0234 | 0.0237 | 93.8 | 94.6 | 63.0-131 | | | 0.950 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0230 | 0.0218 | 92.2 | 87.1 | 74.0-123 | | | 5.64 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0222 | 0.0224 | 88.8 | 89.6 | 72.0-122 | | | 0.830 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0255 | 0.0245 | 102 | 98.2 | 75.0-126 | | | 3.75 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0233 | 0.0239 | 93.4 | 95.7 | 72.0-130 | | | 2.40 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0265 | 0.0251 | 106 | 100 | 80.0-121 | | | 5.35 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0244 | 0.0238 | 97.6 | 95.2 | 80.0-125 | | | 2.42 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0265 | 0.0257 | 106 | 103 | 75.0-129 | | | 3.28 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0227 | 0.0237 | 90.8 | 94.9 | 60.0-129 | | | 4.43 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0243 | 0.0233 | 97.1 | 93.4 | 62.0-133 | | | 3.93 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243686-1 08/22/17 22:27 • (LCSD) R3243686-2 08/23/17 00:00

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0234 | 0.0233 | 93.5 | 93.2 | 77.0-120 | | | 0.220 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0225 | 0.0245 | 90.2 | 98.2 | 68.0-128 | | | 8.53 | 20 |
| 2-Hexanone | 0.125 | 0.128 | 0.130 | 103 | 104 | 61.0-143 | | | 1.71 | 20 |
| n-Hexane | 0.0250 | 0.0217 | 0.0213 | 86.9 | 85.2 | 57.0-125 | | | 1.99 | 20 |
| Iodomethane | 0.125 | 0.129 | 0.131 | 103 | 105 | 67.0-132 | | | 1.93 | 20 |
| Isopropylbenzene | 0.0250 | 0.0227 | 0.0227 | 90.8 | 90.7 | 75.0-120 | | | 0.160 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0224 | 0.0236 | 89.5 | 94.3 | 74.0-125 | | | 5.16 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.127 | 0.129 | 102 | 103 | 37.0-159 | | | 1.27 | 20 |
| Methylene Chloride | 0.0250 | 0.0230 | 0.0222 | 91.9 | 89.0 | 67.0-123 | | | 3.27 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.131 | 0.124 | 105 | 98.9 | 60.0-144 | | | 5.92 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0246 | 0.0233 | 98.5 | 93.1 | 66.0-125 | | | 5.67 | 20 |
| Naphthalene | 0.0250 | 0.0237 | 0.0224 | 94.9 | 89.6 | 64.0-125 | | | 5.79 | 20 |
| n-Propylbenzene | 0.0250 | 0.0224 | 0.0233 | 89.6 | 93.4 | 78.0-120 | | | 4.09 | 20 |
| Styrene | 0.0250 | 0.0227 | 0.0220 | 90.8 | 87.9 | 78.0-124 | | | 3.25 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0233 | 0.0230 | 93.0 | 92.2 | 74.0-124 | | | 0.910 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0239 | 0.0230 | 95.6 | 91.9 | 73.0-120 | | | 4.01 | 20 |
| Tetrachloroethene | 0.0250 | 0.0243 | 0.0241 | 97.3 | 96.2 | 70.0-127 | | | 1.09 | 20 |
| Toluene | 0.0250 | 0.0231 | 0.0224 | 92.2 | 89.6 | 77.0-120 | | | 2.85 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0249 | 0.0254 | 99.4 | 101 | 64.0-135 | | | 2.03 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0246 | 0.0253 | 98.4 | 101 | 68.0-126 | | | 2.82 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0234 | 0.0261 | 93.6 | 105 | 70.0-127 | | | 11.1 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0222 | 0.0224 | 89.0 | 89.7 | 69.0-125 | | | 0.850 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0243 | 0.0230 | 97.0 | 92.0 | 78.0-120 | | | 5.32 | 20 |
| Trichloroethene | 0.0250 | 0.0240 | 0.0238 | 95.9 | 95.1 | 79.0-120 | | | 0.900 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0286 | 0.0299 | 114 | 120 | 59.0-136 | | | 4.56 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0243 | 0.0218 | 97.1 | 87.2 | 73.0-124 | | | 10.8 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0229 | 0.0228 | 91.7 | 91.1 | 76.0-120 | | | 0.660 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0210 | 0.0216 | 84.2 | 86.3 | 75.0-120 | | | 2.54 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0222 | 0.0227 | 88.8 | 90.7 | 75.0-120 | | | 2.14 | 20 |
| Vinyl acetate | 0.125 | 0.131 | 0.135 | 105 | 108 | 58.0-156 | | | 3.01 | 20 |
| Vinyl chloride | 0.0250 | 0.0278 | 0.0284 | 111 | 114 | 63.0-134 | | | 2.11 | 20 |
| Xylenes, Total | 0.0750 | 0.0675 | 0.0678 | 90.0 | 90.4 | 77.0-120 | | | 0.440 | 20 |
| *(S) Toluene-d8* | | | | *102* | *101* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *97.7* | *97.7* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *93.0* | *91.6* | *64.0-132* | | | | |

## Abbreviations and Definitions

| | |
|---|---|
| SDG | Sample Delivery Group. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| RDL | Reported Detection Limit. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| RPD | Relative Percent Difference. |
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Rec. | Recovery. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

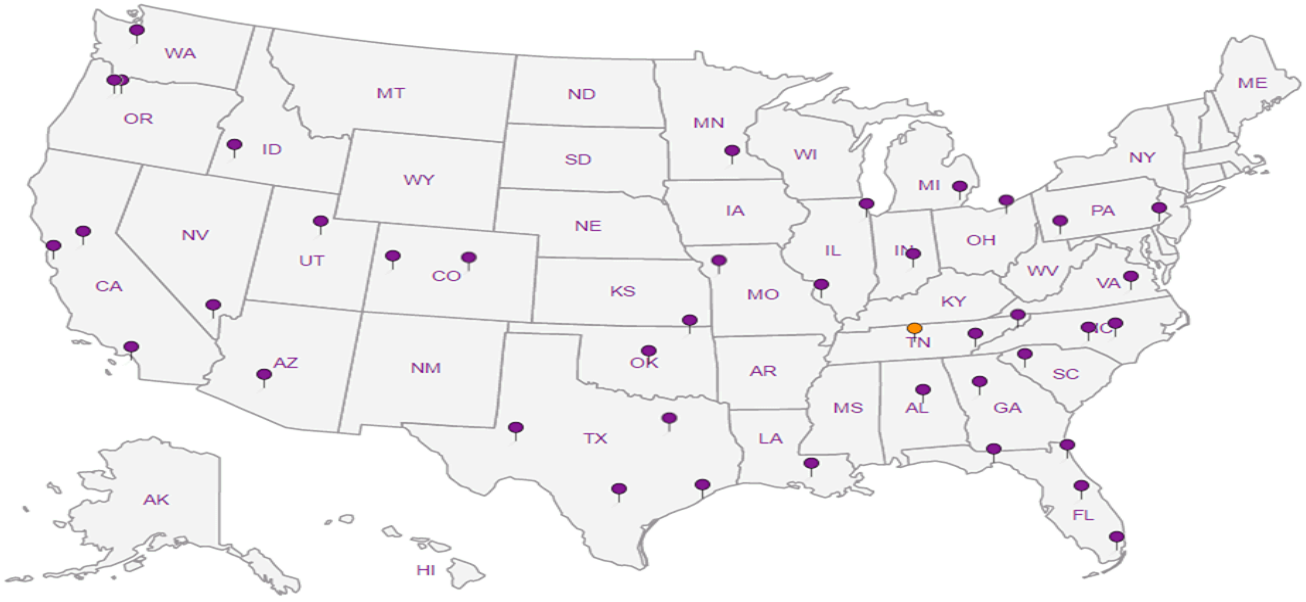
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project #

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON McKERNAN

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# ~~L930313~~ L930317

Tab G103

Acctnum: PESENVSWA
Template: T126586
Prelogin: P613274
TSR: 110 - Brian Ford
PB: 8/10/17 [illegible]
Shipped Via: FedEX Ground

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-133-85 | GRAB | SS | 85 | 8/15/17 | 1540 | 5 | X | | X | X | | | -01 |
| MW ~~1330-95~~ 133-95 | ↓ | SS | 95 | 8/16/17 | 0850 | 5 | X | | X | X | | | -02 |
| MW-133-105 | ↓ | SS | 105 | ↓ | 1045 | 5 | X | | X | X | | | -03 |
| MW-133-120 | ↓ | SS | 120 | ↓ | 1145 | 5 | X | | X | X | | | -04 |
| MW-133-130 | ↓ | SS | 130 | ↓ | 1420 | 5 | X | | X | X | | | -05 |
| MW-133-135 | ↓ | SS | 135 | ↓ | 1500 | 5 | X | | X | X | | | -06 |
| MW- | | ~~SS~~ | | | | ~~5~~ | ~~X~~ | | ~~X~~ | ~~X~~ | | | SM |
| MW-133-90-W | GRAB | GW | 90 | 8/15/17 | 1705 | 6 | | X | | | X | | -07 |
| MW-133-100-W | ↓ | GW | 100 | 8/16/17 | 1000 | 4 ~~3~~ | | X | | | X | HOLD | -08 |
| ~~MW~~ TRIP BLANK | NA | NA ~~GW~~ | NA | 3/27/17 | NA | ~~3~~ 1 | | X | | | X | | |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # 7474 6921 8664

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| [signature] | 1620 | | | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: 1.3 °C Bottles Received: 40 |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) [signature] | Date: 8/17/17 Time: 0245 |

If preservation required by Login: Date/Time

8-114

Condition: NCF / OK

# MEMORANDUM

**TO:** Project File **DATE:** September 18, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** August 15-16, 2017 – Soil and Groundwater Samples

**LAB:** ESC Lab ID L930317

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Six (6) soil samples, two (2) groundwater samples, and a trip blank sample were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on August 15-16, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. One groundwater sample was placed on hold. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L930317. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in X# ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L934130, L934673, L934916, and). The quality assurance review of the sample data associated with SDG L930317 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on August 15-16, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 1.3 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved water from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils and preserved water from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of 7 days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable and ESC notes do not indicate there were any calibration issues.

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at or above the reported detection limits (RDLs) with the following exception:

- Analytical batch WG1011540 (waters): Low levels of naphthalene and 1,2,4-trimethylbenzene were detected between the MDL and the RDL in the method blank analyzed on August 19, 2017. Low levels of naphthalene and 1,2,4-trimethylbenzene were detected below the RDLs in sample MW-133-90-W and qualified (JB) by ESC to indicate an estimated concentration and blank contamination. **Naphthalene and 1,2,4-trimethylbenzene results for sample MW-133-90-W are qualified as not detected (U) due to method blank contamination.**

*NWTPH-Gx Method:*

Laboratory method blanks were included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDL with the following exception:

- Analytical batch WG1012776 (soil): A low level of gasoline range organics were detected between the MDL and the RDL in the method blank analyzed on August 23, 2017. Low levels of gasoline were detected below RDLs in samples MW-133-95, MW-133-105, MW-133-120, and MW-133-130. These were qualified (BJ) by ESC to indicate an estimated concentration (below RDL) and blank contamination. **Samples MW-133-95, MW-133-105, MW-133-120, and MW-133-130 gasoline results are qualified as not detected (U) due to blank contamination. Sample MW-133-135 result for gasoline is estimated and qualified (J) due to low level blank contamination.**

*Total Solids by SM 2540 G 2011:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (% solids) were not detected at significant levels in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C and NWTPH-Gx:*
A trip blank was collected and analyzed. The target analytes (VOCs and gasoline) were not detected in the method blanks at or above the RDL with the following exception:

- Analytical batch WG1011540: A low level of naphthalene was detected between MDL and the RDL in the trip blank analyzed on August 19, 2017. No action was taken on this basis. Refer to the discussion under the method blank since naphthalene was also detected in the method blank at a low level.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicates were not collected.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) and/or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on a non-client sample within the analytical batch. The primary/duplicate RPD for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters. with the following discussion:

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPDs for the control analyte (gasoline) are within the laboratory control criteria for water and soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD results for accuracy and precision data.

*NWTPH-Gx Method:*
MS/MSD analyses were performed on soil sample MW-133-105 and on water sample MW-133-90-W. MS/MSD % Rs and RPDs for gasoline were within the laboratory control criteria for soils.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following exceptions:

- Samples MW-133-85 and MW-133-120 were not reanalyzed at a lower dilution as there was no low level sodium bisulfite vials remaining. No action was taken other than to note this.

**Compound Identification and Quantitation Limits**

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

PES requested and ESC confirmed that there does not appear to be a gasoline chromatographic pattern in selected samples, and in "all likelihood the gasoline values are in the fact the high levels of chlorinated VOCs." **Gasoline range organic results for samples MW-133-85 and MW-133-90-W are qualified as estimated (J) based on chromatographic patterns in the samples and elevated chlorinated VOCs (CVOCs).**

ESC review indicates that sample MW-133-135 did not have high levels of CVOCs and that the gasoline appears to be eluting in the C8-C9 range. The pattern appears to be consistent with gasoline range organics and not due to CVOC overlap. No action is taken on this basis.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

**Data Assessment**

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.3 | | 1 | 08/22/2017 10:58 | WG1012110 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.28 | J | 0.0397 | 0.117 | 1 | 08/23/2017 17:19 | WG1012776 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *08/23/2017 17:19* | WG1012776 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U | | 0.293 | 1.47 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Acrylonitrile | U | | 0.0525 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Benzene | U | | 0.00791 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Bromobenzene | U | | 0.00832 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Bromodichloromethane | U | | 0.00744 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Bromochloromethane | U | | 0.0114 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Bromoform | U | | 0.0124 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Bromomethane | U | | 0.0393 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 | |
| n-Butylbenzene | U | | 0.00756 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| sec-Butylbenzene | U | | 0.00588 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| tert-Butylbenzene | U | | 0.00604 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Carbon disulfide | U | | 0.00647 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Carbon tetrachloride | U | | 0.00961 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Chlorobenzene | U | | 0.00621 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Chlorodibromomethane | U | | 0.0109 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Chloroethane | U | | 0.0277 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Chloroform | U | | 0.00671 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Chloromethane | U | | 0.0110 | 0.0733 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 2-Chlorotoluene | U | | 0.00882 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 4-Chlorotoluene | U | | 0.00703 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0307 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 1,2-Dibromoethane | U | | 0.0101 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Dibromomethane | U | | 0.0112 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 1,2-Dichlorobenzene | U | | 0.00893 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 1,3-Dichlorobenzene | U | | 0.00701 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 1,4-Dichlorobenzene | U | | 0.00662 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Dichlorodifluoromethane | U | | 0.0209 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 1,1-Dichloroethane | U | | 0.00584 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 1,2-Dichloroethane | U | | 0.00776 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 1,1-Dichloroethene | U | | 0.00889 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| cis-1,2-Dichloroethene | 0.0717 | | 0.00689 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| trans-1,2-Dichloroethene | U | | 0.00774 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 1,2-Dichloropropane | U | | 0.0105 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 1,1-Dichloropropene | U | | 0.00928 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 1,3-Dichloropropane | U | | 0.00607 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| cis-1,3-Dichloropropene | U | | 0.00768 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| trans-1,3-Dichloropropene | U | | 0.00783 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| trans-1,4-Dichloro-2-butene | U | | 0.0227 | 0.0733 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 2,2-Dichloropropane | U | | 0.00818 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Di-isopropyl ether | U | | 0.00727 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Ethylbenzene | U | | 0.00870 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| Hexachloro-1,3-butadiene | U | | 0.0100 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| 2-Hexanone | U | | 0.0401 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 | |
| n-Hexane | U | | 0.00850 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 | JC 9/18/17 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0741 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Isopropylbenzene | U | | 0.00713 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| p-Isopropyltoluene | U | | 0.00598 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.137 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Methylene Chloride | U | | 0.0293 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0551 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Methyl tert-butyl ether | 0.0772 | | 0.00621 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Naphthalene | U | | 0.0293 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| n-Propylbenzene | U | | 0.00604 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Styrene | U | | 0.00686 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00774 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0107 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0107 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Tetrachloroethene | 2.28 | | 0.00809 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Toluene | 0.580 | | 0.0127 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.00897 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.0114 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.00838 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.00811 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Trichloroethene | 0.146 | | 0.00818 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Trichlorofluoromethane | U | | 0.0112 | 0.147 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.0217 | 0.0733 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.00619 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.00842 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.00780 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Vinyl acetate | U | | 0.0701 | 0.293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Vinyl chloride | U | | 0.00853 | 0.0293 | 25 | 08/23/2017 18:27 | WG1012508 |
| Xylenes, Total | U | | 0.0204 | 0.0879 | 25 | 08/23/2017 18:27 | WG1012508 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *08/23/2017 18:27* | WG1012508 |
| *(S) Dibromofluoromethane* | *98.9* | | | *74.0-131* | | *08/23/2017 18:27* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *95.5* | | | *64.0-132* | | *08/23/2017 18:27* | WG1012508 |

**Sample Narrative:**

L930317-01 WG1012508: No low level sodium bisulfite vials remaining. Reporting at the lowest possible dilution.

JC 9/18/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.8 | | 1 | 08/22/2017 10:58 | WG1012110 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.0572 U | B J | 0.0395 | 0.116 | 1 | 08/23/2017 17:40 | WG1012776 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.1* | | | *77.0-120* | | *08/23/2017 17:40* | WG1012776 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0582 | 1 | 08/23/2017 03:39 | WG1012508 |
| Acrylonitrile | U | | 0.00209 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Benzene | U | | 0.000315 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Bromobenzene | U | | 0.000331 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Bromodichloromethane | U | | 0.000296 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Bromochloromethane | U | | 0.000454 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| Bromoform | U | | 0.000494 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Bromomethane | U | | 0.00156 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| n-Butylbenzene | U | | 0.000301 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| sec-Butylbenzene | U | | 0.000234 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| tert-Butylbenzene | U | | 0.000240 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Carbon disulfide | U | | 0.000257 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Carbon tetrachloride | U | | 0.000382 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Chlorobenzene | U | | 0.000247 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Chlorodibromomethane | U | | 0.000435 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Chloroethane | U | | 0.00110 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| Chloroform | U | | 0.000267 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| Chloromethane | U | | 0.000437 | 0.00291 | 1 | 08/23/2017 03:39 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000351 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000280 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000400 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Dibromomethane | U | | 0.000445 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000278 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000263 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000831 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000232 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000309 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000353 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| cis-1,2-Dichloroethene | U | | 0.000274 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000308 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000417 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000369 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000241 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000305 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000311 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000906 | 0.00291 | 1 | 08/23/2017 03:39 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000325 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Di-isopropyl ether | U | | 0.000289 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Ethylbenzene | U | | 0.000346 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000398 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 2-Hexanone | U | | 0.00160 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |
| n-Hexane | U | | 0.000338 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |

JC 9/18/17

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00295 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Isopropylbenzene | U | | 0.000283 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000238 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00545 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Methylene Chloride | U | | 0.00116 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00219 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000247 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Naphthalene | U | | 0.00116 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| n-Propylbenzene | U | | 0.000240 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Styrene | U | | 0.000273 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000308 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000425 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000425 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Tetrachloroethene | 0.00127 | | 0.000322 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Toluene | U | | 0.000506 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000356 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000452 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000333 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000323 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Trichloroethene | U | | 0.000325 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000445 | 0.00582 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000863 | 0.00291 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000246 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000334 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000310 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Vinyl acetate | U | | 0.00278 | 0.0116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Vinyl chloride | U | | 0.000339 | 0.00116 | 1 | 08/23/2017 03:39 | WG1012508 |
| Xylenes, Total | U | | 0.000813 | 0.00349 | 1 | 08/23/2017 03:39 | WG1012508 |
| *(S) Toluene-d8* | *98.9* | | | *80.0-120* | | *08/23/2017 03:39* | WG1012508 |
| *(S) Dibromofluoromethane* | *99.6* | | | *74.0-131* | | *08/23/2017 03:39* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *98.3* | | | *64.0-132* | | *08/23/2017 03:39* | WG1012508 |

JC 9/18/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.1 | | 1 | 08/22/2017 10:58 | WG1012110 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.0849 U | B J | 0.0408 | 0.120 | 1 | 08/23/2017 18:02 | WG1012776 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-120* | | *08/23/2017 18:02* | WG1012776 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0120 | 0.0602 | 1 | 08/23/2017 03:59 | WG1012508 |
| Acrylonitrile | U | | 0.00216 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Benzene | U | | 0.000325 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Bromobenzene | U | | 0.000342 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Bromodichloromethane | U | | 0.000306 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Bromochloromethane | U | | 0.000470 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| Bromoform | U | | 0.000511 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Bromomethane | U | | 0.00161 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| n-Butylbenzene | U | | 0.000311 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| sec-Butylbenzene | U | | 0.000242 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| tert-Butylbenzene | U | | 0.000248 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Carbon disulfide | U | | 0.000266 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Carbon tetrachloride | U | | 0.000395 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Chlorobenzene | U | | 0.000255 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Chlorodibromomethane | U | | 0.000449 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Chloroethane | U | | 0.00114 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| Chloroform | U | | 0.000276 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| Chloromethane | U | | 0.000452 | 0.00301 | 1 | 08/23/2017 03:59 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000362 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000289 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000413 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Dibromomethane | U | | 0.000460 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000288 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000272 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000858 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000240 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000319 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000365 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| cis-1,2-Dichloroethene | U | | 0.000283 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000318 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000431 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000382 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000249 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000315 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000321 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000937 | 0.00301 | 1 | 08/23/2017 03:59 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000336 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Di-isopropyl ether | U | | 0.000299 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Ethylbenzene | U | | 0.000358 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000412 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 2-Hexanone | U | | 0.00165 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |
| n-Hexane | U | | 0.000349 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |

JC 9/18/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00305 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Isopropylbenzene | U | | 0.000293 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000246 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00563 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Methylene Chloride | U | | 0.00120 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00226 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000255 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Naphthalene | U | | 0.00120 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| n-Propylbenzene | U | | 0.000248 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Styrene | U | | 0.000282 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000318 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000439 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000439 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Tetrachloroethene | 0.000345 J | J | 0.000332 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Toluene | U | | 0.000523 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000368 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000467 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000344 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000334 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Trichloroethene | U | | 0.000336 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000460 | 0.00602 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000892 | 0.00301 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000254 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000346 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000320 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Vinyl acetate | U | | 0.00288 | 0.0120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Vinyl chloride | U | | 0.000350 | 0.00120 | 1 | 08/23/2017 03:59 | WG1012508 |
| Xylenes, Total | U | | 0.000840 | 0.00361 | 1 | 08/23/2017 03:59 | WG1012508 |
| *(S) Toluene-d8* | *98.0* | | | *80.0-120* | | *08/23/2017 03:59* | WG1012508 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *08/23/2017 03:59* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *96.1* | | | *64.0-132* | | *08/23/2017 03:59* | WG1012508 |

JC 9/18/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.0 | | 1 | 08/22/2017 10:58 | WG1012110 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.0964 U | B J | 0.0368 | 0.109 | 1 | 08/23/2017 18:23 | WG1012776 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.3* | | | *77.0-120* | | *08/23/2017 18:23* | WG1012776 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.272 | 1.36 | 25 | 08/23/2017 18:48 | WG1012508 |
| Acrylonitrile | U | | 0.0487 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Benzene | U | | 0.00734 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Bromobenzene | U | | 0.00772 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Bromodichloromethane | U | | 0.00690 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Bromochloromethane | U | | 0.0106 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| Bromoform | U | | 0.0115 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Bromomethane | U | | 0.0364 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| n-Butylbenzene | U | | 0.00701 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| sec-Butylbenzene | U | | 0.00546 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| tert-Butylbenzene | U | | 0.00560 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Carbon disulfide | U | | 0.00600 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Carbon tetrachloride | U | | 0.00891 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Chlorobenzene | U | | 0.00576 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Chlorodibromomethane | U | | 0.0101 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Chloroethane | U | | 0.0256 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| Chloroform | U | | 0.00622 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| Chloromethane | U | | 0.0102 | 0.0679 | 25 | 08/23/2017 18:48 | WG1012508 |
| 2-Chlorotoluene | U | | 0.00817 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 4-Chlorotoluene | U | | 0.00652 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0285 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.00933 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Dibromomethane | U | | 0.0104 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.00828 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.00650 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.00614 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.0193 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.00541 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.00719 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.00824 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| cis-1,2-Dichloroethene | U | | 0.00639 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.00717 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.00973 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.00861 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.00563 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.00712 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.00726 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.0211 | 0.0679 | 25 | 08/23/2017 18:48 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.00759 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Di-isopropyl ether | U | | 0.00674 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Ethylbenzene | U | | 0.00806 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.00929 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 2-Hexanone | U | | 0.0372 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |
| n-Hexane | U | | 0.00788 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0687 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Isopropylbenzene | U | | 0.00661 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| p-Isopropyltoluene | U | | 0.00554 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.127 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Methylene Chloride | U | | 0.0272 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0511 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Methyl tert-butyl ether | 0.0760 | | 0.00576 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Naphthalene | U | | 0.0272 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| n-Propylbenzene | U | | 0.00560 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Styrene | U | | 0.00636 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00717 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00991 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00991 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Tetrachloroethene | U | | 0.00750 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Toluene | U | | 0.0117 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.00831 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.0105 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.00777 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.00752 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Trichloroethene | U | | 0.00759 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Trichlorofluoromethane | U | | 0.0104 | 0.136 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.0201 | 0.0679 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.00574 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.00780 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.00723 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Vinyl acetate | U | | 0.0650 | 0.272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Vinyl chloride | U | | 0.00791 | 0.0272 | 25 | 08/23/2017 18:48 | WG1012508 |
| Xylenes, Total | U | | 0.0189 | 0.0815 | 25 | 08/23/2017 18:48 | WG1012508 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *08/23/2017 18:48* | WG1012508 |
| *(S) Dibromofluoromethane* | *98.1* | | | *74.0-131* | | *08/23/2017 18:48* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *08/23/2017 18:48* | WG1012508 |

**Sample Narrative:**

L930317-04 WG1012508: No low level sodium bisulfite vials remaining. Reporting at the lowest possible dilution.

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.9 | | 1 | 08/22/2017 10:58 | WG1012110 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.109 U | B J | 0.0404 | 0.119 | 1 | 08/23/2017 18:44 | WG1012776 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.1* | | | *77.0-120* | | *08/23/2017 18:44* | WG1012776 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0119 | 0.0596 | 1 | 08/23/2017 04:41 | WG1012508 |
| Acrylonitrile | U | | 0.00213 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Benzene | U | | 0.000322 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Bromobenzene | U | | 0.000338 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Bromodichloromethane | U | | 0.000303 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Bromochloromethane | U | | 0.000465 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| Bromoform | U | | 0.000505 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Bromomethane | U | | 0.00160 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| n-Butylbenzene | U | | 0.000307 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| sec-Butylbenzene | U | | 0.000239 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| tert-Butylbenzene | U | | 0.000245 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Carbon disulfide | U | | 0.000263 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Carbon tetrachloride | U | | 0.000391 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Chlorobenzene | U | | 0.000253 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Chlorodibromomethane | U | | 0.000444 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Chloroethane | U | | 0.00113 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| Chloroform | U | | 0.000273 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| Chloromethane | U | | 0.000447 | 0.00298 | 1 | 08/23/2017 04:41 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000359 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000286 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000409 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Dibromomethane | U | | 0.000455 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000363 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000285 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000269 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000849 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000237 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000316 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000361 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| cis-1,2-Dichloroethene | 0.000888 J | J | 0.000280 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000314 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000426 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000378 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000247 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000312 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000318 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000927 | 0.00298 | 1 | 08/23/2017 04:41 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000332 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Di-isopropyl ether | U | | 0.000295 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Ethylbenzene | U | | 0.000354 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000407 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 2-Hexanone | U | | 0.00163 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |
| n-Hexane | 0.00262 J | J | 0.000345 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00301 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Isopropylbenzene | U | | 0.000289 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000243 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00558 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Methylene Chloride | U | | 0.00119 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00224 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000253 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Naphthalene | U | | 0.00119 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| n-Propylbenzene | U | | 0.000245 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Styrene | U | | 0.000279 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000314 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000435 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000435 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Tetrachloroethene | 0.0119 | | 0.000329 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Toluene | U | | 0.000517 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000365 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000462 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000341 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000330 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Trichloroethene | 0.00354 | | 0.000332 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000455 | 0.00596 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000883 | 0.00298 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000251 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000342 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000317 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Vinyl acetate | U | | 0.00285 | 0.0119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Vinyl chloride | U | | 0.000347 | 0.00119 | 1 | 08/23/2017 04:41 | WG1012508 |
| Xylenes, Total | U | | 0.000832 | 0.00357 | 1 | 08/23/2017 04:41 | WG1012508 |
| *(S) Toluene-d8* | *96.9* | | | *80.0-120* | | *08/23/2017 04:41* | WG1012508 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *08/23/2017 04:41* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *97.4* | | | *64.0-132* | | *08/23/2017 04:41* | WG1012508 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.3 | | 1 | 08/22/2017 10:58 | WG1012110 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 15.3 J | B | 0.961 | 2.83 | 25 | 08/24/2017 13:28 | WG1012776 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.8* | | | *77.0-120* | | *08/24/2017 13:28* | WG1012776 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0172 J | J | 0.0113 | 0.0566 | 1 | 08/23/2017 05:01 | WG1012508 |
| Acrylonitrile | U | | 0.00203 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Benzene | 0.00369 | | 0.000306 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Bromobenzene | U | | 0.000322 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Bromodichloromethane | U | | 0.000288 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Bromochloromethane | U | | 0.000442 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| Bromoform | U | | 0.000480 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Bromomethane | U | | 0.00152 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| n-Butylbenzene | 0.000535 J | J | 0.000292 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| sec-Butylbenzene | U | | 0.000228 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| tert-Butylbenzene | U | | 0.000233 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Carbon disulfide | U | | 0.000250 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Carbon tetrachloride | U | | 0.000372 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Chlorobenzene | U | | 0.000240 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Chlorodibromomethane | U | | 0.000423 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Chloroethane | U | | 0.00107 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| Chloroform | U | | 0.000259 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| Chloromethane | U | | 0.000425 | 0.00283 | 1 | 08/23/2017 05:01 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000341 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000272 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000389 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Dibromomethane | U | | 0.000433 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000271 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000808 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000300 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000343 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| cis-1,2-Dichloroethene | 0.000836 J | J | 0.000266 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000299 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000406 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000359 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000297 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000302 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000881 | 0.00283 | 1 | 08/23/2017 05:01 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000316 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Di-isopropyl ether | U | | 0.000281 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Ethylbenzene | 0.00179 | | 0.000336 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000387 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |
| n-Hexane | 0.100 | | 0.000329 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00287 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Isopropylbenzene | U | | 0.000275 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000231 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 2-Butanone (MEK) | 0.0156 | | 0.00530 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Methylene Chloride | U | | 0.00113 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00213 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000240 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Naphthalene | U | | 0.00113 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| n-Propylbenzene | 0.000915 J | J | 0.000233 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Styrene | 0.000429 J | J | 0.000265 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000299 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000413 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000413 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Tetrachloroethene | 0.0107 | | 0.000313 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Toluene | 0.0119 | | 0.000492 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000347 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000440 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000324 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000314 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Trichloroethene | 0.000965 J | J | 0.000316 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000433 | 0.00566 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000839 | 0.00283 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2,4-Trimethylbenzene | 0.000845 J | J | 0.000239 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000325 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000301 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Vinyl acetate | U | | 0.00271 | 0.0113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Vinyl chloride | U | | 0.000330 | 0.00113 | 1 | 08/23/2017 05:01 | WG1012508 |
| Xylenes, Total | 0.00392 | | 0.000791 | 0.00340 | 1 | 08/23/2017 05:01 | WG1012508 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/23/2017 05:01* | WG1012508 |
| *(S) Dibromofluoromethane* | *98.8* | | | *74.0-131* | | *08/23/2017 05:01* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *99.5* | | | *64.0-132* | | *08/23/2017 05:01* | WG1012508 |



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## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 2210 J | | 31.6 | 100 | 1 | 08/23/2017 04:12 | WG1012440 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *113* | | | *77.0-122* | | *08/23/2017 04:12* | WG1012440 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 32.2 J | J | 5.25 | 125 | 5 | 08/19/2017 13:35 | WG1011540 |
| Acrylonitrile | U | | 4.36 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| Benzene | 64.3 | | 0.448 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Bromobenzene | U | | 0.665 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Bromodichloromethane | U | | 0.400 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Bromochloromethane | U | | 0.725 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Bromoform | U | | 0.930 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Bromomethane | U | | 0.785 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| n-Butylbenzene | U | | 0.715 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| sec-Butylbenzene | U | | 0.670 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| tert-Butylbenzene | U | | 0.915 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Carbon disulfide | U | | 0.505 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Carbon tetrachloride | U | | 0.795 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Chlorobenzene | U | | 0.700 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Chlorodibromomethane | U | | 0.640 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Chloroethane | 1.81 J | J | 0.705 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| Chloroform | U | | 0.430 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Chloromethane | 55.9 | | 0.765 | 6.25 | 5 | 08/19/2017 13:35 | WG1011540 |
| 2-Chlorotoluene | U | | 0.555 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 4-Chlorotoluene | U | | 0.486 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.62 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2-Dibromoethane | U | | 0.965 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Dibromomethane | U | | 0.585 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2-Dichlorobenzene | U | | 0.505 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,3-Dichlorobenzene | U | | 0.650 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,4-Dichlorobenzene | U | | 0.605 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Dichlorodifluoromethane | U | | 0.635 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1-Dichloroethane | U | | 0.570 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2-Dichloroethane | U | | 0.540 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1-Dichloroethene | U | | 0.940 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| cis-1,2-Dichloroethene | 22.2 | | 0.466 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| trans-1,2-Dichloroethene | U | | 0.760 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2-Dichloropropane | U | | 0.950 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1-Dichloropropene | U | | 0.640 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,3-Dichloropropane | U | | 0.735 | 5.00 | 5 | 08/19/2017 13:35 | WG1011540 |
| cis-1,3-Dichloropropene | U | | 0.488 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| trans-1,3-Dichloropropene | U | | 1.11 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| trans-1,4-Dichloro-2-butene | U | | 1.28 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| 2,2-Dichloropropane | U | | 0.464 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Di-isopropyl ether | U | | 0.462 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Ethylbenzene | 1.44 J | J | 0.790 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Hexachloro-1,3-butadiene | U | | 0.785 | 5.00 | 5 | 08/19/2017 13:35 | WG1011540 |
| 2-Hexanone | 18.6 J | J | 3.78 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| n-Hexane | 2.91 J | J | 1.52 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| Iodomethane | U | | 1.88 | 50.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| Isopropylbenzene | U | | 0.630 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| p-Isopropyltoluene | U | | 0.690 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 2-Butanone (MEK) | 13.6 J | J | 6.40 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |



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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methylene Chloride | U | | 5.35 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| 4-Methyl-2-pentanone (MIBK) | U | | 4.12 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| Methyl tert-butyl ether | U | | 0.510 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Naphthalene | 2.88 U | B J | 0.870 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| n-Propylbenzene | U | | 0.810 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Styrene | U | | 0.585 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1,1,2-Tetrachloroethane | U | | 0.600 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1,2,2-Tetrachloroethane | U | | 0.650 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.820 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Tetrachloroethene | 413 | | 0.995 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Toluene | 711 | | 2.06 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2,3-Trichlorobenzene | U | | 0.820 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2,4-Trichlorobenzene | U | | 1.78 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1,1-Trichloroethane | U | | 0.470 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,1,2-Trichloroethane | U | | 0.930 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Trichloroethene | 34.4 | | 0.765 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Trichlorofluoromethane | U | | 0.650 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2,3-Trichloropropane | U | | 1.24 | 12.5 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2,4-Trimethylbenzene | 0.746 U | B J | 0.615 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,2,3-Trimethylbenzene | U | | 0.370 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| 1,3,5-Trimethylbenzene | U | | 0.620 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Vinyl acetate | U | | 3.22 | 25.0 | 5 | 08/19/2017 13:35 | WG1011540 |
| Vinyl chloride | 1.56 J | J | 0.590 | 2.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| Xylenes, Total | 2.92 J | J | 1.58 | 7.50 | 5 | 08/19/2017 13:35 | WG1011540 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *08/19/2017 13:35* | WG1011540 |
| *(S) Dibromofluoromethane* | *96.0* | | | *76.0-123* | | *08/19/2017 13:35* | WG1011540 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *80.0-120* | | *08/19/2017 13:35* | WG1011540 |

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## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 | 1 | 08/22/2017 21:07 | WG1012440 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.8* | | | *77.0-122* | | *08/22/2017 21:07* | WG1012440 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 | 1 | 08/19/2017 11:36 | WG1011540 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 08/19/2017 11:36 | WG1011540 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 08/19/2017 11:36 | WG1011540 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Naphthalene | 0.211 | B J | 0.174 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Styrene | U | | 0.117 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Toluene | U | | 0.412 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 08/19/2017 11:36 | WG1011540 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 08/19/2017 11:36 | WG1011540 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 08/19/2017 11:36 | WG1011540 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *08/19/2017 11:36* | WG1011540 |
| *(S) Dibromofluoromethane* | *98.2* | | | *76.0-123* | | *08/19/2017 11:36* | WG1011540 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *08/19/2017 11:36* | WG1011540 |



JC 9/18/17

# ANALYTICAL REPORT

August 25, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L930670 |
| Samples Received: | 08/18/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## MW-133-141 L930670-01 Solid

Collected by: Shannon McKernan | Collected date/time: 08/16/17 17:10 | Received date/time: 08/18/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1012135 | 1 | 08/22/17 08:16 | 08/22/17 08:23 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1012852 | 25 | 08/16/17 17:10 | 08/24/17 18:49 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 1 | 08/16/17 17:10 | 08/23/17 19:09 | ACG |

## B-211-20 L930670-02 Solid

Collected by: Shannon McKernan | Collected date/time: 08/17/17 11:55 | Received date/time: 08/18/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1012647 | 1 | 08/23/17 10:35 | 08/23/17 10:38 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 1 | 08/17/17 11:55 | 08/23/17 07:46 | ACG |

## B-211-35 L930670-03 Solid

Collected by: Shannon McKernan | Collected date/time: 08/17/17 13:10 | Received date/time: 08/18/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1012647 | 1 | 08/23/17 10:35 | 08/23/17 10:38 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 1 | 08/17/17 13:10 | 08/23/17 08:07 | ACG |

## B-211-50 L930670-04 Solid

Collected by: Shannon McKernan | Collected date/time: 08/17/17 15:35 | Received date/time: 08/18/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1012652 | 1 | 08/23/17 09:39 | 08/23/17 09:43 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012508 | 1 | 08/17/17 15:35 | 08/23/17 08:27 | ACG |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.8 | | 1 | 08/22/2017 08:23 | WG1012135 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.955 | 2.82 | 25 | 08/24/2017 18:49 | WG1012852 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.8* | | | *77.0-120* | | *08/24/2017 18:49* | WG1012852 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0113 | 0.0563 | 1 | 08/23/2017 19:09 | WG1012508 |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Benzene | 0.000766 | J | 0.000304 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Bromobenzene | U | | 0.000320 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Bromodichloromethane | U | | 0.000286 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Bromochloromethane | U | | 0.000439 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| Bromoform | U | | 0.000478 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Bromomethane | U | | 0.00151 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| n-Butylbenzene | U | | 0.000291 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| sec-Butylbenzene | U | | 0.000226 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| tert-Butylbenzene | U | | 0.000232 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Carbon disulfide | 0.00232 | | 0.000249 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Carbon tetrachloride | U | | 0.000369 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Chlorobenzene | U | | 0.000239 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Chlorodibromomethane | U | | 0.000420 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Chloroethane | U | | 0.00107 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| Chloroform | U | | 0.000258 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| Chloromethane | U | | 0.000422 | 0.00282 | 1 | 08/23/2017 19:09 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000339 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000270 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000386 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Dibromomethane | U | | 0.000430 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000343 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000269 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000255 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000803 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000224 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000298 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000341 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| cis-1,2-Dichloroethene | U | | 0.000265 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000297 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000403 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000357 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000233 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000295 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000301 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000876 | 0.00282 | 1 | 08/23/2017 19:09 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000314 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Di-isopropyl ether | U | | 0.000279 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Ethylbenzene | U | | 0.000334 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000385 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 2-Hexanone | U | | 0.00154 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |
| n-Hexane | 0.0113 | | 0.000327 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00285 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Isopropylbenzene | U | | 0.000274 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000230 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00527 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Methylene Chloride | U | | 0.00113 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00212 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000239 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Naphthalene | U | | 0.00113 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| n-Propylbenzene | U | | 0.000232 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Styrene | U | | 0.000264 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000297 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000411 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000411 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Tetrachloroethene | U | | 0.000311 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Toluene | U | | 0.000489 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000437 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000322 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000312 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Trichloroethene | U | | 0.000314 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000430 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000835 | 0.00282 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000238 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000323 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000300 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Vinyl acetate | U | | 0.00269 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Vinyl chloride | U | | 0.000328 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Xylenes, Total | U | | 0.000786 | 0.00338 | 1 | 08/23/2017 19:09 | WG1012508 |
| *(S) Toluene-d8* | *97.9* | | | *80.0-120* | | *08/23/2017 19:09* | WG1012508 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *08/23/2017 19:09* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *96.7* | | | *64.0-132* | | *08/23/2017 19:09* | WG1012508 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.6 | | 1 | 08/23/2017 10:38 | WG1012647 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0112 | 0.0558 | 1 | 08/23/2017 07:46 | WG1012508 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Benzene | U | | 0.000301 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Bromochloromethane | U | | 0.000435 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| Bromoform | U | | 0.000473 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Bromomethane | U | | 0.00150 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| sec-Butylbenzene | U | | 0.000224 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Carbon disulfide | U | | 0.000247 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Carbon tetrachloride | U | | 0.000366 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Chlorodibromomethane | U | | 0.000416 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Chloroethane | U | | 0.00106 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| Chloroform | U | | 0.000256 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| Chloromethane | U | | 0.000419 | 0.00279 | 1 | 08/23/2017 07:46 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000383 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Dibromomethane | U | | 0.000427 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000796 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000296 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1-Dichloroethene | 0.000862 | J | 0.000338 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| cis-1,2-Dichloroethene | 0.0282 | | 0.000262 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| trans-1,2-Dichloroethene | 0.00109 | J | 0.000295 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000400 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000354 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000293 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000869 | 0.00279 | 1 | 08/23/2017 07:46 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000312 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000382 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |
| n-Hexane | U | | 0.000324 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Iodomethane | U | | 0.00282 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Isopropylbenzene | U | | 0.000271 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00523 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Methylene Chloride | U | | 0.00112 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Naphthalene | U | | 0.00112 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Styrene | U | | 0.000261 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000408 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000408 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Tetrachloroethene | 0.0153 | | 0.000308 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Toluene | U | | 0.000485 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000433 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Trichloroethene | 0.0202 | | 0.000312 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000427 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000827 | 0.00279 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Vinyl chloride | 0.000723 | J | 0.000325 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Xylenes, Total | U | | 0.000779 | 0.00335 | 1 | 08/23/2017 07:46 | WG1012508 |
| *(S) Toluene-d8* | *98.0* | | | *80.0-120* | | *08/23/2017 07:46* | WG1012508 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/23/2017 07:46* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *96.0* | | | *64.0-132* | | *08/23/2017 07:46* | WG1012508 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.8 | | 1 | 08/23/2017 10:38 | WG1012647 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0113 | 0.0563 | 1 | 08/23/2017 08:07 | WG1012508 |
| Acrylonitrile | U | | 0.00201 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Benzene | U | | 0.000304 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Bromobenzene | U | | 0.000320 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Bromodichloromethane | U | | 0.000286 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Bromochloromethane | U | | 0.000439 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| Bromoform | U | | 0.000477 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Bromomethane | U | | 0.00151 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| n-Butylbenzene | U | | 0.000290 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| sec-Butylbenzene | U | | 0.000226 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| tert-Butylbenzene | U | | 0.000232 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Carbon disulfide | 0.000481 | J | 0.000249 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Carbon tetrachloride | U | | 0.000369 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Chlorobenzene | U | | 0.000239 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Chlorodibromomethane | U | | 0.000420 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Chloroethane | U | | 0.00106 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| Chloroform | U | | 0.000258 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| Chloromethane | U | | 0.000422 | 0.00281 | 1 | 08/23/2017 08:07 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000339 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000270 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000386 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Dibromomethane | U | | 0.000430 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000343 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000269 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000254 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000803 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000224 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000298 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000341 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| cis-1,2-Dichloroethene | 0.00104 | J | 0.000265 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000297 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000403 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000357 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000233 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000295 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000301 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000876 | 0.00281 | 1 | 08/23/2017 08:07 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000314 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Di-isopropyl ether | U | | 0.000279 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Ethylbenzene | U | | 0.000334 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000385 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 2-Hexanone | U | | 0.00154 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |
| n-Hexane | 0.000482 | J | 0.000326 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Iodomethane | U | | 0.00285 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Isopropylbenzene | U | | 0.000274 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000230 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00527 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Methylene Chloride | U | | 0.00113 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00212 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000239 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Naphthalene | U | | 0.00113 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| n-Propylbenzene | U | | 0.000232 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Styrene | U | | 0.000263 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000297 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000411 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000411 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Tetrachloroethene | 0.000805 | J | 0.000311 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Toluene | U | | 0.000489 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000344 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000437 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000322 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000312 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Trichloroethene | U | | 0.000314 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000430 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000834 | 0.00281 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000238 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000323 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000299 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Vinyl acetate | U | | 0.00269 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Vinyl chloride | 0.000539 | J | 0.000328 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Xylenes, Total | U | | 0.000786 | 0.00338 | 1 | 08/23/2017 08:07 | WG1012508 |
| *(S) Toluene-d8* | *98.5* | | | *80.0-120* | | *08/23/2017 08:07* | WG1012508 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/23/2017 08:07* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *98.5* | | | *64.0-132* | | *08/23/2017 08:07* | WG1012508 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.5 | | 1 | 08/23/2017 09:43 | WG1012652 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0114 | J | 0.0108 | 0.0541 | 1 | 08/23/2017 08:27 | WG1012508 |
| Acrylonitrile | U | | 0.00194 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Benzene | U | | 0.000292 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Bromobenzene | U | | 0.000307 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Bromochloromethane | U | | 0.000422 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| Bromoform | U | | 0.000458 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Bromomethane | U | | 0.00145 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| n-Butylbenzene | U | | 0.000279 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| sec-Butylbenzene | U | | 0.000217 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Carbon disulfide | 0.000898 | J | 0.000239 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Carbon tetrachloride | U | | 0.000355 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Chlorobenzene | U | | 0.000229 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Chlorodibromomethane | U | | 0.000403 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Chloroethane | U | | 0.00102 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| Chloroform | U | | 0.000248 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| Chloromethane | U | | 0.000405 | 0.00270 | 1 | 08/23/2017 08:27 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000325 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000259 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000371 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Dibromomethane | U | | 0.000413 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000258 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000244 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000771 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000215 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000287 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000328 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| cis-1,2-Dichloroethene | 0.0189 | | 0.000254 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| trans-1,2-Dichloroethene | 0.000512 | J | 0.000285 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000387 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000343 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000283 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000289 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000841 | 0.00270 | 1 | 08/23/2017 08:27 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000302 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Di-isopropyl ether | U | | 0.000268 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Ethylbenzene | U | | 0.000321 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000370 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |
| n-Hexane | U | | 0.000314 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Iodomethane | U | | 0.00274 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Isopropylbenzene | U | | 0.000263 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00506 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Methylene Chloride | U | | 0.00108 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00203 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000229 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Naphthalene | U | | 0.00108 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Styrene | U | | 0.000253 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000285 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000395 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000395 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Tetrachloroethene | 0.0235 | | 0.000298 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Toluene | U | | 0.000469 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000420 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000309 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000300 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Trichloroethene | U | | 0.000302 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000413 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000801 | 0.00270 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000228 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000310 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Vinyl acetate | U | | 0.00258 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Vinyl chloride | 0.00127 | | 0.000315 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Xylenes, Total | U | | 0.000755 | 0.00324 | 1 | 08/23/2017 08:27 | WG1012508 |
| *(S) Toluene-d8* | *98.0* | | | *80.0-120* | | *08/23/2017 08:27* | WG1012508 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *08/23/2017 08:27* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *97.9* | | | *64.0-132* | | *08/23/2017 08:27* | WG1012508 |

## Method Blank (MB)

(MB) R3243512-1 08/22/17 08:23

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000800 | | | |

## L930562-09 Original Sample (OS) • Duplicate (DUP)

(OS) L930562-09 08/22/17 08:23 • (DUP) R3243512-3 08/22/17 08:23

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 97.2 | 97.7 | 1 | 0.525 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3243512-2 08/22/17 08:23

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3243971-1 08/23/17 10:38

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.000300 | | | |

## L930664-04 Original Sample (OS) • Duplicate (DUP)

(OS) L930664-04 08/23/17 10:38 • (DUP) R3243971-3 08/23/17 10:38

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 80.9 | 81.5 | 1 | 0.790 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3243971-2 08/23/17 10:38

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3243964-1 08/23/17 09:43

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000300 | | | |

## L930701-03 Original Sample (OS) • Duplicate (DUP)

(OS) L930701-03 08/23/17 09:43 • (DUP) R3243964-3 08/23/17 09:43

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 81.4 | 81.5 | 1 | 0.119 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3243964-2 08/23/17 09:43

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3244465-3 08/24/17 12:29

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.5* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3244465-1 08/24/17 11:19 • (LCSD) R3244465-2 08/24/17 11:42

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | 5.05 | 5.10 | 91.8 | 92.7 | 70.0-133 | | | 0.950 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *104* | *104* | *77.0-120* | | | | |

## L930631-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L930631-03 08/24/17 16:03 • (MS) R3244465-4 08/24/17 21:12 • (MSD) R3244465-5 08/24/17 21:36

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 6.30 | U | 218 | 217 | 88.1 | 87.8 | 39.25 | 10.0-146 | | | 0.290 | 30 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *103* | *103* | | *77.0-120* | | | | |

**Sample Narrative:**

OS: No stir bars remain for analysis.

## Method Blank (MB)

(MB) R3243686-4 08/23/17 01:35

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3243686-4 08/23/17 01:35

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | 0.00316 | J | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *97.2* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *95.5* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243686-1 08/22/17 22:27 • (LCSD) R3243686-2 08/23/17 00:00

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.103 | 0.113 | 82.6 | 90.0 | 11.0-160 | | | 8.64 | 23 |
| Acrylonitrile | 0.125 | 0.122 | 0.114 | 97.2 | 91.4 | 61.0-143 | | | 6.22 | 20 |
| Benzene | 0.0250 | 0.0243 | 0.0236 | 97.2 | 94.4 | 71.0-124 | | | 2.88 | 20 |
| Bromobenzene | 0.0250 | 0.0234 | 0.0230 | 93.7 | 91.8 | 78.0-120 | | | 1.99 | 20 |
| Bromodichloromethane | 0.0250 | 0.0236 | 0.0230 | 94.5 | 92.0 | 75.0-120 | | | 2.72 | 20 |
| Bromochloromethane | 0.0250 | 0.0250 | 0.0236 | 99.9 | 94.4 | 80.0-121 | | | 5.59 | 20 |
| Bromoform | 0.0250 | 0.0234 | 0.0224 | 93.6 | 89.4 | 65.0-133 | | | 4.56 | 20 |
| Bromomethane | 0.0250 | 0.0267 | 0.0269 | 107 | 108 | 26.0-160 | | | 0.990 | 20 |
| n-Butylbenzene | 0.0250 | 0.0219 | 0.0247 | 87.7 | 98.9 | 73.0-126 | | | 12.0 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0230 | 0.0233 | 91.9 | 93.3 | 75.0-121 | | | 1.43 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0234 | 0.0231 | 93.7 | 92.3 | 74.0-122 | | | 1.48 | 20 |
| Carbon disulfide | 0.0250 | 0.0242 | 0.0242 | 96.9 | 96.8 | 53.0-130 | | | 0.0500 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0226 | 0.0231 | 90.5 | 92.3 | 66.0-123 | | | 1.99 | 20 |
| Chlorobenzene | 0.0250 | 0.0245 | 0.0239 | 98.2 | 95.7 | 79.0-121 | | | 2.56 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0235 | 0.0230 | 93.8 | 92.0 | 74.0-128 | | | 2.00 | 20 |
| Chloroethane | 0.0250 | 0.0267 | 0.0268 | 107 | 107 | 51.0-147 | | | 0.280 | 20 |
| Chloroform | 0.0250 | 0.0241 | 0.0236 | 96.6 | 94.3 | 73.0-123 | | | 2.39 | 20 |
| Chloromethane | 0.0250 | 0.0238 | 0.0236 | 95.2 | 94.4 | 51.0-138 | | | 0.810 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0234 | 0.0235 | 93.6 | 94.0 | 72.0-124 | | | 0.470 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0222 | 0.0230 | 88.7 | 91.8 | 78.0-120 | | | 3.50 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0250 | 0.0250 | 100 | 100 | 65.0-126 | | | 0.0600 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0256 | 0.0233 | 102 | 93.2 | 78.0-122 | | | 9.27 | 20 |
| Dibromomethane | 0.0250 | 0.0251 | 0.0232 | 100 | 92.9 | 79.0-120 | | | 7.80 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0243 | 0.0243 | 97.2 | 97.3 | 80.0-120 | | | 0.120 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0235 | 0.0250 | 94.0 | 100 | 72.0-123 | | | 6.22 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0226 | 0.0237 | 90.4 | 94.8 | 77.0-120 | | | 4.68 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0250 | 0.0264 | 100 | 106 | 68.0-126 | | | 5.31 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0233 | 0.0229 | 93.0 | 91.7 | 49.0-155 | | | 1.47 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0248 | 0.0243 | 99.1 | 97.2 | 70.0-128 | | | 1.95 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0259 | 0.0244 | 103 | 97.6 | 69.0-128 | | | 5.88 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0234 | 0.0237 | 93.8 | 94.6 | 63.0-131 | | | 0.950 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0230 | 0.0218 | 92.2 | 87.1 | 74.0-123 | | | 5.64 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0222 | 0.0224 | 88.8 | 89.6 | 72.0-122 | | | 0.830 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0255 | 0.0245 | 102 | 98.2 | 75.0-126 | | | 3.75 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0233 | 0.0239 | 93.4 | 95.7 | 72.0-130 | | | 2.40 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0265 | 0.0251 | 106 | 100 | 80.0-121 | | | 5.35 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0244 | 0.0238 | 97.6 | 95.2 | 80.0-125 | | | 2.42 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0265 | 0.0257 | 106 | 103 | 75.0-129 | | | 3.28 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0227 | 0.0237 | 90.8 | 94.9 | 60.0-129 | | | 4.43 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0243 | 0.0233 | 97.1 | 93.4 | 62.0-133 | | | 3.93 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3243686-1 08/22/17 22:27 • (LCSD) R3243686-2 08/23/17 00:00

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0234 | 0.0233 | 93.5 | 93.2 | 77.0-120 | | | 0.220 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0225 | 0.0245 | 90.2 | 98.2 | 68.0-128 | | | 8.53 | 20 |
| 2-Hexanone | 0.125 | 0.128 | 0.130 | 103 | 104 | 61.0-143 | | | 1.71 | 20 |
| n-Hexane | 0.0250 | 0.0217 | 0.0213 | 86.9 | 85.2 | 57.0-125 | | | 1.99 | 20 |
| Iodomethane | 0.125 | 0.129 | 0.131 | 103 | 105 | 67.0-132 | | | 1.93 | 20 |
| Isopropylbenzene | 0.0250 | 0.0227 | 0.0227 | 90.8 | 90.7 | 75.0-120 | | | 0.160 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0224 | 0.0236 | 89.5 | 94.3 | 74.0-125 | | | 5.16 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.127 | 0.129 | 102 | 103 | 37.0-159 | | | 1.27 | 20 |
| Methylene Chloride | 0.0250 | 0.0230 | 0.0222 | 91.9 | 89.0 | 67.0-123 | | | 3.27 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.131 | 0.124 | 105 | 98.9 | 60.0-144 | | | 5.92 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0246 | 0.0233 | 98.5 | 93.1 | 66.0-125 | | | 5.67 | 20 |
| Naphthalene | 0.0250 | 0.0237 | 0.0224 | 94.9 | 89.6 | 64.0-125 | | | 5.79 | 20 |
| n-Propylbenzene | 0.0250 | 0.0224 | 0.0233 | 89.6 | 93.4 | 78.0-120 | | | 4.09 | 20 |
| Styrene | 0.0250 | 0.0227 | 0.0220 | 90.8 | 87.9 | 78.0-124 | | | 3.25 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0233 | 0.0230 | 93.0 | 92.2 | 74.0-124 | | | 0.910 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0239 | 0.0230 | 95.6 | 91.9 | 73.0-120 | | | 4.01 | 20 |
| Tetrachloroethene | 0.0250 | 0.0243 | 0.0241 | 97.3 | 96.2 | 70.0-127 | | | 1.09 | 20 |
| Toluene | 0.0250 | 0.0231 | 0.0224 | 92.2 | 89.6 | 77.0-120 | | | 2.85 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0249 | 0.0254 | 99.4 | 101 | 64.0-135 | | | 2.03 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0246 | 0.0253 | 98.4 | 101 | 68.0-126 | | | 2.82 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0234 | 0.0261 | 93.6 | 105 | 70.0-127 | | | 11.1 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0222 | 0.0224 | 89.0 | 89.7 | 69.0-125 | | | 0.850 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0243 | 0.0230 | 97.0 | 92.0 | 78.0-120 | | | 5.32 | 20 |
| Trichloroethene | 0.0250 | 0.0240 | 0.0238 | 95.9 | 95.1 | 79.0-120 | | | 0.900 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0286 | 0.0299 | 114 | 120 | 59.0-136 | | | 4.56 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0243 | 0.0218 | 97.1 | 87.2 | 73.0-124 | | | 10.8 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0229 | 0.0228 | 91.7 | 91.1 | 76.0-120 | | | 0.660 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0210 | 0.0216 | 84.2 | 86.3 | 75.0-120 | | | 2.54 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0222 | 0.0227 | 88.8 | 90.7 | 75.0-120 | | | 2.14 | 20 |
| Vinyl acetate | 0.125 | 0.131 | 0.135 | 105 | 108 | 58.0-156 | | | 3.01 | 20 |
| Vinyl chloride | 0.0250 | 0.0278 | 0.0284 | 111 | 114 | 63.0-134 | | | 2.11 | 20 |
| Xylenes, Total | 0.0750 | 0.0675 | 0.0678 | 90.0 | 90.4 | 77.0-120 | | | 0.440 | 20 |
| *(S) Toluene-d8* | | | | *102* | *101* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *97.7* | *97.7* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *93.0* | *91.6* | *64.0-132* | | | | |

## Abbreviations and Definitions

| | |
|---|---|
| SDG | Sample Delivery Group. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| RDL | Reported Detection Limit. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| RPD | Relative Percent Difference. |
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Rec. | Recovery. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

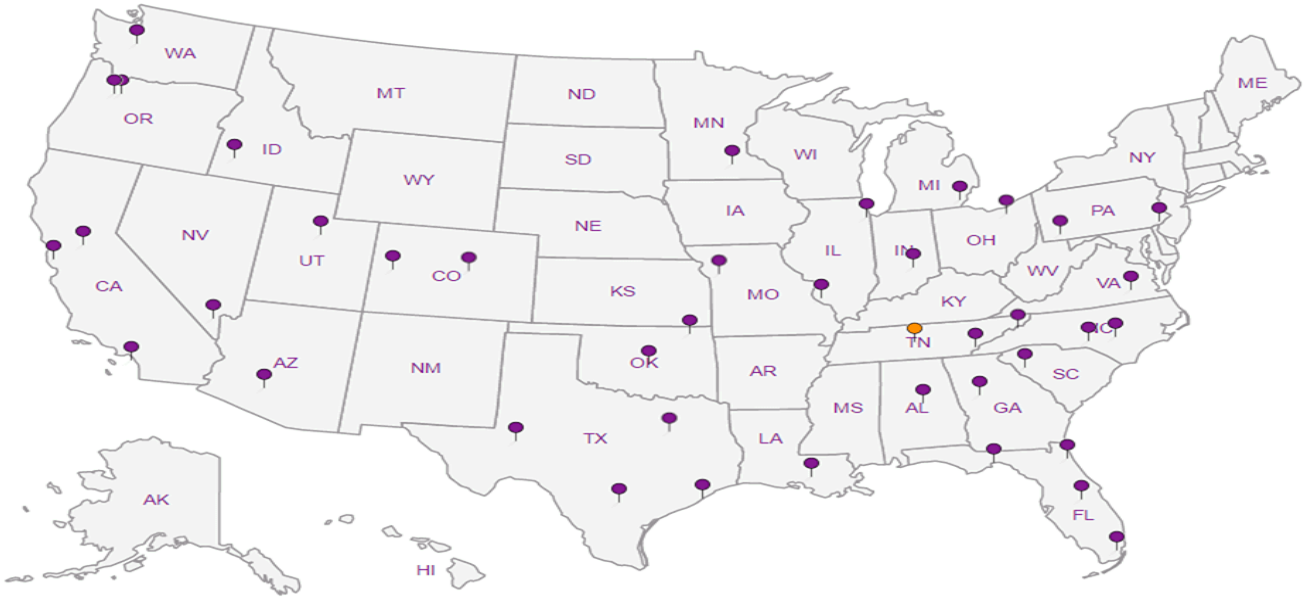
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON McKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-133-141 | GRAB | SS | 141 | 8/16/17 | 1710 | 5 | X | | X | X | | | -01 |
| ~~MW-~~ B-211-20 | | SS | 20 | 8/17/17 | 1155 | ~~4~~ 5 | ~~5~~ X | | X | X | | | -02 |
| ~~MW-~~ B-211-35 | | SS | 35 | | 1310 | ~~4~~ 5 | ~~5~~ X | | X | X | | | -03 |
| ~~MW-~~ B-211-50 | | SS | 50 | | 1535 | ~~4~~ 5 | ~~5~~ X | | X | X | | | -04 |
| MW- | | SS | | | | 5 | X | | X | X | | | |
| MW- | | SS | | | | 5 | X | | X | X | | | |
| MW- | | SS | | | | 5 | X | | X | X | | | |
| MW- | | GW | | | | 6 | | X | | | X | | |
| MW- | | GW | | | | 6 | | X | | | X | | |
| MW- | | GW | | | | 6 | | X | | | X | | |

Chain of Custody Page ___ of ___

ESC LABORATORIES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 930670
D221

Acctnum: PESENVSWA
Template: T126586
Prelogin: P613274
TSR: 110 - Brian Ford
PB: 8/10/17 MW
Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # ~~72~~ 7474 0921 0675

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes (No) HCL / MeoH TBR |
|---|---|---|---|---|
| | 8/17/17 | 1630 | | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: 1.5 °C Bottles Received: 17 |
| | | | | If preservation required by Login: Date/Time |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 8/18/17 Time: 0845 |
| | | | | Hold: Condition: NCF / OK |

# MEMORANDUM

**TO:** Project File **DATE:** September 18, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** August 16-17, 2017 – Soil Samples

**LAB:** ESC Lab ID L930670

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Four (4) soil samples were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on August 16-17, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L930670. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in X# ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L934130, L934673, L934916, and). The quality assurance review of the sample data associated with SDG L930670 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on August 16-17, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 1.5 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of 7 days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable and ESC notes do not indicate there were any calibration issues.

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at or above the reported detection limits (RDLs) with the following exception:

- Analytical batch WG1012508 (soils): A low level of iodomethane was detected between the MDL and the RDL in the method blank analyzed on August 23, 2017. No action was taken since iodomethane was not detected in the associated samples**.**

*NWTPH-Gx Method:*
A laboratory method blank was included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blank at or above the RDL.

*Total Solids by SM 2540 G 2011:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (% solids) were not detected at significant levels in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C and NWTPH-Gx:*
A trip blank was not collected.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicates were not collected.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) and/or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on non-client samples within the analytical batches. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, matrix spike/matrix spike duplicates (MS/MSDs), and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils.

*NWTPH-Gx Method:*
LCS/LCSD was analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

**Matrix Spike/Matrix Spike Duplicates**

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD results for accuracy and precision data.

*NWTPH-Gx Method:*
MS/MSD analyses were performed on a non-client sample within the analytical batch. MS/MSD % Rs and RPD for gasoline were within the laboratory control criteria for soils.

**Other Quality Control Issues**

No laboratory quality control issues were identified in the laboratory report.

**Compound Identification and Quantitation Limits**

The RDLs used for this sample group were acceptable for the project.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

**Data Assessment**

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.8 | | 1 | 08/22/2017 08:23 | WG1012135 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.955 | 2.82 | 25 | 08/24/2017 18:49 | WG1012852 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.8* | | | *77.0-120* | | *08/24/2017 18:49* | WG1012852 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0113 | 0.0563 | 1 | 08/23/2017 19:09 | WG1012508 |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Benzene | 0.000766 | J | 0.000304 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Bromobenzene | U | | 0.000320 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Bromodichloromethane | U | | 0.000286 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Bromochloromethane | U | | 0.000439 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| Bromoform | U | | 0.000478 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Bromomethane | U | | 0.00151 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| n-Butylbenzene | U | | 0.000291 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| sec-Butylbenzene | U | | 0.000226 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| tert-Butylbenzene | U | | 0.000232 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Carbon disulfide | 0.00232 | | 0.000249 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Carbon tetrachloride | U | | 0.000369 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Chlorobenzene | U | | 0.000239 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Chlorodibromomethane | U | | 0.000420 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Chloroethane | U | | 0.00107 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| Chloroform | U | | 0.000258 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| Chloromethane | U | | 0.000422 | 0.00282 | 1 | 08/23/2017 19:09 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000339 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000270 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000386 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Dibromomethane | U | | 0.000430 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000343 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000269 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000255 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000803 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000224 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000298 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000341 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| cis-1,2-Dichloroethene | U | | 0.000265 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000297 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000403 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000357 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000233 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000295 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000301 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000876 | 0.00282 | 1 | 08/23/2017 19:09 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000314 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Di-isopropyl ether | U | | 0.000279 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Ethylbenzene | U | | 0.000334 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000385 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 2-Hexanone | U | | 0.00154 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |
| n-Hexane | 0.0113 | | 0.000327 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00285 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Isopropylbenzene | U | | 0.000274 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000230 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00527 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Methylene Chloride | U | | 0.00113 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00212 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Methyl tert-butyl ether | U | | 0.000239 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Naphthalene | U | | 0.00113 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| n-Propylbenzene | U | | 0.000232 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Styrene | U | | 0.000264 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000297 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000411 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000411 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Tetrachloroethene | U | | 0.000311 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Toluene | U | | 0.000489 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000437 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000322 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000312 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Trichloroethene | U | | 0.000314 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000430 | 0.00563 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000835 | 0.00282 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000238 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000323 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000300 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Vinyl acetate | U | | 0.00269 | 0.0113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Vinyl chloride | U | | 0.000328 | 0.00113 | 1 | 08/23/2017 19:09 | WG1012508 |
| Xylenes, Total | U | | 0.000786 | 0.00338 | 1 | 08/23/2017 19:09 | WG1012508 |
| *(S) Toluene-d8* | *97.9* | | | *80.0-120* | | *08/23/2017 19:09* | WG1012508 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *08/23/2017 19:09* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *96.7* | | | *64.0-132* | | *08/23/2017 19:09* | WG1012508 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.6 | | 1 | 08/23/2017 10:38 | WG1012647 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0112 | 0.0558 | 1 | 08/23/2017 07:46 | WG1012508 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Benzene | U | | 0.000301 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Bromochloromethane | U | | 0.000435 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| Bromoform | U | | 0.000473 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Bromomethane | U | | 0.00150 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| sec-Butylbenzene | U | | 0.000224 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Carbon disulfide | U | | 0.000247 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Carbon tetrachloride | U | | 0.000366 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Chlorodibromomethane | U | | 0.000416 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Chloroethane | U | | 0.00106 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| Chloroform | U | | 0.000256 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| Chloromethane | U | | 0.000419 | 0.00279 | 1 | 08/23/2017 07:46 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000383 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Dibromomethane | U | | 0.000427 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000796 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000296 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1-Dichloroethene | 0.000862 | J | 0.000338 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| cis-1,2-Dichloroethene | 0.0282 | | 0.000262 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| trans-1,2-Dichloroethene | 0.00109 | J | 0.000295 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000400 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000354 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000293 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000869 | 0.00279 | 1 | 08/23/2017 07:46 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000312 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000382 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |
| n-Hexane | U | | 0.000324 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Iodomethane | U | | 0.00282 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Isopropylbenzene | U | | 0.000271 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00523 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Methylene Chloride | U | | 0.00112 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Naphthalene | U | | 0.00112 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Styrene | U | | 0.000261 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000408 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000408 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Tetrachloroethene | 0.0153 | | 0.000308 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Toluene | U | | 0.000485 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000433 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Trichloroethene | 0.0202 | | 0.000312 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000427 | 0.00558 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000827 | 0.00279 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Vinyl chloride | 0.000723 J | J | 0.000325 | 0.00112 | 1 | 08/23/2017 07:46 | WG1012508 |
| Xylenes, Total | U | | 0.000779 | 0.00335 | 1 | 08/23/2017 07:46 | WG1012508 |
| *(S) Toluene-d8* | *98.0* | | | *80.0-120* | | *08/23/2017 07:46* | WG1012508 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/23/2017 07:46* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *96.0* | | | *64.0-132* | | *08/23/2017 07:46* | WG1012508 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.8 | | 1 | 08/23/2017 10:38 | WG1012647 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0113 | 0.0563 | 1 | 08/23/2017 08:07 | WG1012508 |
| Acrylonitrile | U | | 0.00201 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Benzene | U | | 0.000304 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Bromobenzene | U | | 0.000320 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Bromodichloromethane | U | | 0.000286 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Bromochloromethane | U | | 0.000439 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| Bromoform | U | | 0.000477 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Bromomethane | U | | 0.00151 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| n-Butylbenzene | U | | 0.000290 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| sec-Butylbenzene | U | | 0.000226 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| tert-Butylbenzene | U | | 0.000232 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Carbon disulfide | 0.000481 J | J | 0.000249 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Carbon tetrachloride | U | | 0.000369 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Chlorobenzene | U | | 0.000239 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Chlorodibromomethane | U | | 0.000420 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Chloroethane | U | | 0.00106 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| Chloroform | U | | 0.000258 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| Chloromethane | U | | 0.000422 | 0.00281 | 1 | 08/23/2017 08:07 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000339 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000270 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000386 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Dibromomethane | U | | 0.000430 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000343 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000269 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000254 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000803 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000224 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000298 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000341 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| cis-1,2-Dichloroethene | 0.00104 J | J | 0.000265 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| trans-1,2-Dichloroethene | U | | 0.000297 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000403 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000357 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000233 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000295 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000301 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000876 | 0.00281 | 1 | 08/23/2017 08:07 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000314 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Di-isopropyl ether | U | | 0.000279 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Ethylbenzene | U | | 0.000334 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000385 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 2-Hexanone | U | | 0.00154 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |
| n-Hexane | 0.000482 J | J | 0.000326 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Iodomethane | U | | 0.00285 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Isopropylbenzene | U | | 0.000274 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000230 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00527 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Methylene Chloride | U | | 0.00113 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00212 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000239 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Naphthalene | U | | 0.00113 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| n-Propylbenzene | U | | 0.000232 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Styrene | U | | 0.000263 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000297 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000411 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000411 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Tetrachloroethene | 0.000805 J | J | 0.000311 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Toluene | U | | 0.000489 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000344 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000437 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000322 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000312 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Trichloroethene | U | | 0.000314 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000430 | 0.00563 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000834 | 0.00281 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000238 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000323 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000299 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Vinyl acetate | U | | 0.00269 | 0.0113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Vinyl chloride | 0.000539 J | J | 0.000328 | 0.00113 | 1 | 08/23/2017 08:07 | WG1012508 |
| Xylenes, Total | U | | 0.000786 | 0.00338 | 1 | 08/23/2017 08:07 | WG1012508 |
| *(S) Toluene-d8* | *98.5* | | | *80.0-120* | | *08/23/2017 08:07* | WG1012508 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/23/2017 08:07* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *98.5* | | | *64.0-132* | | *08/23/2017 08:07* | WG1012508 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.5 | | 1 | 08/23/2017 09:43 | WG1012652 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0114 J | J | 0.0108 | 0.0541 | 1 | 08/23/2017 08:27 | WG1012508 |
| Acrylonitrile | U | | 0.00194 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Benzene | U | | 0.000292 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Bromobenzene | U | | 0.000307 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Bromochloromethane | U | | 0.000422 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| Bromoform | U | | 0.000458 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Bromomethane | U | | 0.00145 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| n-Butylbenzene | U | | 0.000279 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| sec-Butylbenzene | U | | 0.000217 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Carbon disulfide | 0.000898 J | J | 0.000239 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Carbon tetrachloride | U | | 0.000355 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Chlorobenzene | U | | 0.000229 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Chlorodibromomethane | U | | 0.000403 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Chloroethane | U | | 0.00102 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| Chloroform | U | | 0.000248 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| Chloromethane | U | | 0.000405 | 0.00270 | 1 | 08/23/2017 08:27 | WG1012508 |
| 2-Chlorotoluene | U | | 0.000325 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 4-Chlorotoluene | U | | 0.000259 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2-Dibromoethane | U | | 0.000371 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Dibromomethane | U | | 0.000413 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2-Dichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,3-Dichlorobenzene | U | | 0.000258 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,4-Dichlorobenzene | U | | 0.000244 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Dichlorodifluoromethane | U | | 0.000771 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1-Dichloroethane | U | | 0.000215 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2-Dichloroethane | U | | 0.000287 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1-Dichloroethene | U | | 0.000328 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| cis-1,2-Dichloroethene | 0.0189 | | 0.000254 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| trans-1,2-Dichloroethene | 0.000512 J | J | 0.000285 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2-Dichloropropane | U | | 0.000387 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1-Dichloropropene | U | | 0.000343 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| cis-1,3-Dichloropropene | U | | 0.000283 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| trans-1,3-Dichloropropene | U | | 0.000289 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| trans-1,4-Dichloro-2-butene | U | | 0.000841 | 0.00270 | 1 | 08/23/2017 08:27 | WG1012508 |
| 2,2-Dichloropropane | U | | 0.000302 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Di-isopropyl ether | U | | 0.000268 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Ethylbenzene | U | | 0.000321 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Hexachloro-1,3-butadiene | U | | 0.000370 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |
| n-Hexane | U | | 0.000314 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Iodomethane | U | | 0.00274 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Isopropylbenzene | U | | 0.000263 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 2-Butanone (MEK) | U | | 0.00506 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Methylene Chloride | U | | 0.00108 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00203 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000229 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Naphthalene | U | | 0.00108 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Styrene | U | | 0.000253 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000285 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000395 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000395 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Tetrachloroethene | 0.0235 | | 0.000298 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Toluene | U | | 0.000469 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2,3-Trichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2,4-Trichlorobenzene | U | | 0.000420 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1,1-Trichloroethane | U | | 0.000309 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,1,2-Trichloroethane | U | | 0.000300 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Trichloroethene | U | | 0.000302 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Trichlorofluoromethane | U | | 0.000413 | 0.00541 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2,3-Trichloropropane | U | | 0.000801 | 0.00270 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2,4-Trimethylbenzene | U | | 0.000228 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,2,3-Trimethylbenzene | U | | 0.000310 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Vinyl acetate | U | | 0.00258 | 0.0108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Vinyl chloride | 0.00127 | | 0.000315 | 0.00108 | 1 | 08/23/2017 08:27 | WG1012508 |
| Xylenes, Total | U | | 0.000755 | 0.00324 | 1 | 08/23/2017 08:27 | WG1012508 |
| *(S) Toluene-d8* | *98.0* | | | *80.0-120* | | *08/23/2017 08:27* | WG1012508 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *08/23/2017 08:27* | WG1012508 |
| *(S) 4-Bromofluorobenzene* | *97.9* | | | *64.0-132* | | *08/23/2017 08:27* | WG1012508 |

# ANALYTICAL REPORT

August 31, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L930884 |
| Samples Received: | 08/19/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Mark W. Beasley
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-211-57 L930884-01 Solid

Collected by: Shannon McKernan | Collected date/time: 08/17/17 16:20 | Received date/time: 08/19/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013068 | 1 | 08/24/17 05:24 | 08/24/17 10:10 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012951 | 1 | 08/17/17 16:20 | 08/26/17 23:32 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012951 | 25 | 08/17/17 16:20 | 08/28/17 13:28 | BMB |

## B-211-60 L930884-02 Solid

Collected by: Shannon McKernan | Collected date/time: 08/17/17 16:30 | Received date/time: 08/19/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013068 | 1 | 08/24/17 05:24 | 08/24/17 10:10 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012951 | 1 | 08/17/17 16:30 | 08/26/17 23:52 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012951 | 50 | 08/17/17 16:30 | 08/28/17 13:54 | BMB |

## B-211-65 L930884-03 Solid

Collected by: Shannon McKernan | Collected date/time: 08/18/17 07:45 | Received date/time: 08/19/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013068 | 1 | 08/24/17 05:24 | 08/24/17 10:10 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012951 | 1 | 08/18/17 07:45 | 08/27/17 00:11 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012951 | 50 | 08/18/17 07:45 | 08/28/17 14:20 | BMB |

## B-211-70 L930884-04 Solid

Collected by: Shannon McKernan | Collected date/time: 08/18/17 08:15 | Received date/time: 08/19/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013068 | 1 | 08/24/17 05:24 | 08/24/17 10:10 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012951 | 500 | 08/18/17 08:15 | 08/28/17 14:46 | BMB |

## B-211-80 L930884-05 Solid

Collected by: Shannon McKernan | Collected date/time: 08/18/17 08:55 | Received date/time: 08/19/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013068 | 1 | 08/24/17 05:24 | 08/24/17 10:10 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012951 | 25 | 08/18/17 08:55 | 08/28/17 15:36 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012951 | 500 | 08/18/17 08:55 | 08/28/17 19:56 | BMB |

## B-211-90 L930884-06 Solid

Collected by: Shannon McKernan | Collected date/time: 08/18/17 10:55 | Received date/time: 08/19/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013068 | 1 | 08/24/17 05:24 | 08/24/17 10:10 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012951 | 25 | 08/18/17 10:55 | 08/28/17 16:02 | BMB |

## B-211-100 L930884-07 Solid

Collected by: Shannon McKernan | Collected date/time: 08/18/17 11:50 | Received date/time: 08/19/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013068 | 1 | 08/24/17 05:24 | 08/24/17 10:10 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012951 | 1 | 08/18/17 11:50 | 08/28/17 16:28 | BMB |

## B-211-110 L930884-09 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 08/18/17 14:40 | 08/19/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013068 | 1 | 08/24/17 05:24 | 08/24/17 10:10 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1012951 | 1 | 08/18/17 14:40 | 08/28/17 16:54 | BMB |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.8 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0118 | 0.0590 | 1 | 08/26/2017 23:32 | WG1012951 |
| Acrylonitrile | U | | 0.00211 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Benzene | U | | 0.000318 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Bromobenzene | U | | 0.000335 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Bromodichloromethane | U | | 0.000300 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Bromochloromethane | U | | 0.000460 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| Bromoform | U | | 0.000500 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Bromomethane | U | | 0.00158 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| n-Butylbenzene | U | | 0.000304 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| sec-Butylbenzene | U | | 0.000237 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| tert-Butylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Carbon disulfide | 0.00150 | | 0.000261 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Carbon tetrachloride | U | | 0.000387 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Chlorobenzene | U | | 0.000250 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Chlorodibromomethane | U | | 0.000440 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Chloroethane | U | | 0.00112 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| Chloroform | U | | 0.000270 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| Chloromethane | U | | 0.000442 | 0.00295 | 1 | 08/26/2017 23:32 | WG1012951 |
| 2-Chlorotoluene | U | | 0.000355 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 4-Chlorotoluene | U | | 0.000283 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.000405 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Dibromomethane | U | | 0.000451 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.000360 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.000282 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.000267 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.000841 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.000235 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.000313 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1-Dichloroethene | U | | 0.000357 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| cis-1,2-Dichloroethene | 0.0830 | | 0.000277 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| trans-1,2-Dichloroethene | 0.00171 | | 0.000311 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.000422 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.000374 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.000244 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.000309 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.000315 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.000918 | 0.00295 | 1 | 08/26/2017 23:32 | WG1012951 |
| 2,2-Dichloropropane | U | J0 | 0.000329 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Di-isopropyl ether | U | | 0.000292 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Ethylbenzene | U | | 0.000350 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.000403 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 2-Hexanone | U | | 0.00162 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |
| n-Hexane | 0.00389 | J | 0.000342 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Iodomethane | U | | 0.00298 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Isopropylbenzene | U | | 0.000287 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| p-Isopropyltoluene | U | | 0.000241 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 2-Butanone (MEK) | U | J0 | 0.00552 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Methylene Chloride | U | | 0.00118 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00222 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000250 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Naphthalene | U | | 0.00118 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Styrene | U | | 0.000276 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000311 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000430 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000430 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Tetrachloroethene | 0.0294 | J | 0.00814 | 0.0295 | 25 | 08/28/2017 13:28 | WG1012951 |
| Toluene | U | | 0.000512 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.000361 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.000458 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.000337 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.000327 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Trichloroethene | 0.00212 | | 0.000329 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Trichlorofluoromethane | U | | 0.000451 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.000874 | 0.00295 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.000338 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.000314 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Vinyl chloride | 0.00600 | | 0.000343 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Xylenes, Total | U | | 0.000823 | 0.00354 | 1 | 08/26/2017 23:32 | WG1012951 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/26/2017 23:32* | WG1012951 |
| *(S) Toluene-d8* | *87.1* | | | *80.0-120* | | *08/28/2017 13:28* | WG1012951 |
| *(S) Dibromofluoromethane* | *94.9* | | | *74.0-131* | | *08/28/2017 13:28* | WG1012951 |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* | | *08/26/2017 23:32* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *118* | | | *64.0-132* | | *08/26/2017 23:32* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *97.0* | | | *64.0-132* | | *08/28/2017 13:28* | WG1012951 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.7 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0115 | 0.0577 | 1 | 08/26/2017 23:52 | WG1012951 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Benzene | U | | 0.000311 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Bromobenzene | U | | 0.000327 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Bromodichloromethane | U | | 0.000293 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Bromochloromethane | U | | 0.000450 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| Bromoform | U | | 0.000489 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Bromomethane | U | | 0.00155 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| n-Butylbenzene | U | | 0.000298 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| sec-Butylbenzene | U | | 0.000232 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| tert-Butylbenzene | U | | 0.000238 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Carbon disulfide | 0.00223 | | 0.000255 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Carbon tetrachloride | U | | 0.000378 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Chlorobenzene | U | | 0.000244 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Chlorodibromomethane | U | | 0.000430 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Chloroethane | U | | 0.00109 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| Chloroform | U | | 0.000264 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| Chloromethane | U | | 0.000432 | 0.00288 | 1 | 08/26/2017 23:52 | WG1012951 |
| 2-Chlorotoluene | U | | 0.000347 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 4-Chlorotoluene | U | | 0.000277 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.000396 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Dibromomethane | U | | 0.000440 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.000276 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.000261 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.000822 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.000229 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.000306 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1-Dichloroethene | 0.00566 | | 0.000349 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| cis-1,2-Dichloroethene | 4.99 | | 0.0136 | 0.0577 | 50 | 08/28/2017 13:54 | WG1012951 |
| trans-1,2-Dichloroethene | 0.0599 | | 0.000304 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.000413 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.000366 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.000239 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.000302 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.000308 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.000897 | 0.00288 | 1 | 08/26/2017 23:52 | WG1012951 |
| 2,2-Dichloropropane | U | J0 | 0.000322 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Di-isopropyl ether | U | | 0.000286 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Ethylbenzene | U | | 0.000342 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.000394 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |
| n-Hexane | U | | 0.000334 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Iodomethane | U | | 0.00292 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 2-Butanone (MEK) | U | J0 | 0.00540 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Methylene Chloride | U | | 0.00115 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00217 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Naphthalene | U | | 0.00115 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| n-Propylbenzene | U | | 0.000238 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Styrene | U | | 0.000270 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000304 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000421 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000421 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Tetrachloroethene | 0.162 | | 0.0159 | 0.0577 | 50 | 08/28/2017 13:54 | WG1012951 |
| Toluene | U | | 0.000500 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.000353 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.000447 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.000330 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.000319 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Trichloroethene | 0.000907 | J | 0.000322 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Trichlorofluoromethane | U | | 0.000440 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.000854 | 0.00288 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.000243 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.000331 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.000307 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Vinyl acetate | U | | 0.00276 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Vinyl chloride | 1.15 | | 0.0168 | 0.0577 | 50 | 08/28/2017 13:54 | WG1012951 |
| Xylenes, Total | U | | 0.000805 | 0.00346 | 1 | 08/26/2017 23:52 | WG1012951 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *08/26/2017 23:52* | WG1012951 |
| *(S) Toluene-d8* | *99.9* | | | *80.0-120* | | *08/28/2017 13:54* | WG1012951 |
| *(S) Dibromofluoromethane* | *99.6* | | | *74.0-131* | | *08/28/2017 13:54* | WG1012951 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *08/26/2017 23:52* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *97.1* | | | *64.0-132* | | *08/28/2017 13:54* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *113* | | | *64.0-132* | | *08/26/2017 23:52* | WG1012951 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.6 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0113 | 0.0564 | 1 | 08/27/2017 00:11 | WG1012951 |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Benzene | U | | 0.000305 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Bromobenzene | U | | 0.000321 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Bromodichloromethane | U | | 0.000287 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Bromochloromethane | U | | 0.000440 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| Bromoform | U | | 0.000479 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Bromomethane | U | | 0.00151 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| n-Butylbenzene | U | | 0.000291 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| sec-Butylbenzene | U | | 0.000227 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| tert-Butylbenzene | U | | 0.000233 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Carbon disulfide | 0.00239 | | 0.000249 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Carbon tetrachloride | U | | 0.000370 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Chlorobenzene | U | | 0.000239 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Chlorodibromomethane | U | | 0.000421 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Chloroethane | U | | 0.00107 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| Chloroform | U | | 0.000258 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| Chloromethane | U | | 0.000423 | 0.00282 | 1 | 08/27/2017 00:11 | WG1012951 |
| 2-Chlorotoluene | U | | 0.000340 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 4-Chlorotoluene | U | | 0.000271 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.000387 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Dibromomethane | U | | 0.000431 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.000344 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.000270 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.000255 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.000805 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.000299 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1-Dichloroethene | 0.00722 | | 0.000342 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| cis-1,2-Dichloroethene | 5.58 | | 0.0133 | 0.0564 | 50 | 08/28/2017 14:20 | WG1012951 |
| trans-1,2-Dichloroethene | 0.0110 | | 0.000298 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.000404 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.000358 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.000296 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.000301 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.000878 | 0.00282 | 1 | 08/27/2017 00:11 | WG1012951 |
| 2,2-Dichloropropane | U | J0 | 0.000315 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Di-isopropyl ether | U | | 0.000280 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Ethylbenzene | U | | 0.000335 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.000386 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |
| n-Hexane | U | | 0.000327 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Iodomethane | U | | 0.00286 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Isopropylbenzene | U | | 0.000274 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| p-Isopropyltoluene | U | | 0.000230 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 2-Butanone (MEK) | U | J0 | 0.00528 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Methylene Chloride | U | | 0.00113 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00212 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000239 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Naphthalene | U | | 0.00113 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| n-Propylbenzene | U | | 0.000233 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Styrene | U | | 0.000264 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000298 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000412 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000412 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Tetrachloroethene | 7.42 | | 0.0156 | 0.0564 | 50 | 08/28/2017 14:20 | WG1012951 |
| Toluene | 0.00201 | J | 0.000490 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.000438 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.000323 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.000313 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Trichloroethene | 1.15 | | 0.0158 | 0.0564 | 50 | 08/28/2017 14:20 | WG1012951 |
| Trichlorofluoromethane | U | | 0.000431 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.000836 | 0.00282 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.000238 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.000324 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.000300 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Vinyl acetate | U | | 0.00270 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Vinyl chloride | 0.0421 | | 0.000328 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Xylenes, Total | U | | 0.000788 | 0.00339 | 1 | 08/27/2017 00:11 | WG1012951 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *08/27/2017 00:11* | WG1012951 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/28/2017 14:20* | WG1012951 |
| *(S) Dibromofluoromethane* | *98.4* | | | *74.0-131* | | *08/28/2017 14:20* | WG1012951 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/27/2017 00:11* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *97.8* | | | *64.0-132* | | *08/28/2017 14:20* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *115* | | | *64.0-132* | | *08/27/2017 00:11* | WG1012951 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.5 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 5.98 | 29.9 | 500 | 08/28/2017 14:46 | WG1012951 |
| Acrylonitrile | U | | 1.07 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 |
| Benzene | U | | 0.162 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Bromobenzene | U | | 0.170 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Bromodichloromethane | U | | 0.152 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Bromochloromethane | U | | 0.233 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 |
| Bromoform | U | | 0.254 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Bromomethane | U | | 0.802 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 |
| n-Butylbenzene | U | | 0.154 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| sec-Butylbenzene | U | | 0.120 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| tert-Butylbenzene | U | | 0.123 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Carbon disulfide | U | | 0.132 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Carbon tetrachloride | U | | 0.196 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Chlorobenzene | U | | 0.127 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Chlorodibromomethane | U | | 0.223 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Chloroethane | U | | 0.566 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 |
| Chloroform | U | | 0.136 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 |
| Chloromethane | U | | 0.225 | 1.50 | 500 | 08/28/2017 14:46 | WG1012951 |
| 2-Chlorotoluene | U | | 0.180 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 4-Chlorotoluene | U | | 0.144 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.628 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.206 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Dibromomethane | U | | 0.229 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.182 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.144 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.135 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.426 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.119 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.158 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,1-Dichloroethene | U | | 0.182 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| cis-1,2-Dichloroethene | 3.96 | | 0.141 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| trans-1,2-Dichloroethene | U | | 0.158 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.214 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.189 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.124 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.157 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.160 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.466 | 1.50 | 500 | 08/28/2017 14:46 | WG1012951 |
| 2,2-Dichloropropane | U | | 0.168 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Di-isopropyl ether | U | | 0.148 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Ethylbenzene | U | | 0.177 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.205 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 2-Hexanone | U | | 0.820 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 |
| n-Hexane | U | | 0.174 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 |
| Iodomethane | U | | 1.51 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 |
| Isopropylbenzene | U | | 0.146 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| p-Isopropyltoluene | U | | 0.122 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 2-Butanone (MEK) | U | | 2.80 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 |
| Methylene Chloride | U | | 0.598 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 1.13 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 0.202 | J | 0.127 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Naphthalene | U | | 0.598 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 |
| n-Propylbenzene | U | | 0.123 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Styrene | U | | 0.140 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.158 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.218 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.218 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Tetrachloroethene | 46.1 | | 0.165 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Toluene | U | | 0.260 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.183 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.232 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.171 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.165 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Trichloroethene | 2.88 | | 0.168 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Trichlorofluoromethane | U | | 0.229 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.443 | 1.50 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.127 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.172 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.159 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Vinyl acetate | U | | 1.44 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 |
| Vinyl chloride | U | | 0.175 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Xylenes, Total | U | | 0.418 | 1.80 | 500 | 08/28/2017 14:46 | WG1012951 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *08/28/2017 14:46* | WG1012951 |
| *(S) Dibromofluoromethane* | *99.2* | | | *74.0-131* | | *08/28/2017 14:46* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *99.7* | | | *64.0-132* | | *08/28/2017 14:46* | WG1012951 |

**Sample Narrative:**

L930884-04 WG1012951: Target compounds too high to run at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.3 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.271 | 1.35 | 25 | 08/28/2017 15:36 | WG1012951 |
| Acrylonitrile | U | | 0.0485 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Benzene | U | | 0.00731 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Bromobenzene | U | | 0.00769 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Bromodichloromethane | U | | 0.00688 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Bromochloromethane | U | | 0.0106 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| Bromoform | U | | 0.0115 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Bromomethane | U | | 0.0363 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| n-Butylbenzene | U | | 0.00698 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| sec-Butylbenzene | U | | 0.00544 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| tert-Butylbenzene | U | | 0.00558 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Carbon disulfide | U | | 0.00598 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Carbon tetrachloride | U | | 0.00888 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Chlorobenzene | U | | 0.00574 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Chlorodibromomethane | U | | 0.0101 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Chloroethane | U | | 0.0256 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| Chloroform | U | | 0.00619 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| Chloromethane | U | | 0.0102 | 0.0677 | 25 | 08/28/2017 15:36 | WG1012951 |
| 2-Chlorotoluene | U | | 0.00814 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 4-Chlorotoluene | U | | 0.00650 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0284 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.00929 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Dibromomethane | U | | 0.0103 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.00825 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.00648 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.00612 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.0193 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.00539 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.00717 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1-Dichloroethene | U | | 0.00821 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| cis-1,2-Dichloroethene | 0.172 | | 0.00637 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| trans-1,2-Dichloroethene | U | | 0.00715 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.00969 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.00858 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.00561 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.00709 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.00723 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.0210 | 0.0677 | 25 | 08/28/2017 15:36 | WG1012951 |
| 2,2-Dichloropropane | U | | 0.00756 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Di-isopropyl ether | U | | 0.00671 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Ethylbenzene | U | | 0.00804 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.00926 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 2-Hexanone | U | | 0.0370 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |
| n-Hexane | U | | 0.00785 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Iodomethane | U | | 0.0684 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Isopropylbenzene | U | | 0.00658 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| p-Isopropyltoluene | U | | 0.00552 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 2-Butanone (MEK) | U | | 0.127 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Methylene Chloride | U | | 0.0271 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0509 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 0.0548 | | 0.00574 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Naphthalene | U | | 0.0271 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| n-Propylbenzene | U | | 0.00558 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Styrene | U | | 0.00634 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00715 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00988 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00988 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Tetrachloroethene | 9.34 | | 0.149 | 0.541 | 500 | 08/28/2017 19:56 | WG1012951 |
| Toluene | U | | 0.0117 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.00828 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.0105 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.00774 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.00749 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Trichloroethene | 0.495 | | 0.00756 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Trichlorofluoromethane | U | | 0.0103 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.0200 | 0.0677 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.00572 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.00778 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.00720 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Vinyl acetate | U | | 0.0648 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Vinyl chloride | U | | 0.00788 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Xylenes, Total | U | | 0.0188 | 0.0812 | 25 | 08/28/2017 15:36 | WG1012951 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/28/2017 15:36* | WG1012951 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *08/28/2017 19:56* | WG1012951 |
| *(S) Dibromofluoromethane* | *93.7* | | | *74.0-131* | | *08/28/2017 15:36* | WG1012951 |
| *(S) Dibromofluoromethane* | *98.6* | | | *74.0-131* | | *08/28/2017 19:56* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *08/28/2017 15:36* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *64.0-132* | | *08/28/2017 19:56* | WG1012951 |

**Sample Narrative:**

L930884-05 WG1012951: Target compounds too high to run at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.8 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.291 | 1.46 | 25 | 08/28/2017 16:02 | WG1012951 |
| Acrylonitrile | U | | 0.0522 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Benzene | U | | 0.00787 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Bromobenzene | U | | 0.00828 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Bromodichloromethane | U | | 0.00740 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Bromochloromethane | U | | 0.0114 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| Bromoform | U | | 0.0124 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Bromomethane | U | | 0.0391 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| n-Butylbenzene | U | | 0.00752 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| sec-Butylbenzene | U | | 0.00585 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| tert-Butylbenzene | U | | 0.00600 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Carbon disulfide | U | | 0.00643 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Carbon tetrachloride | U | | 0.00956 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Chlorobenzene | U | | 0.00618 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Chlorodibromomethane | U | | 0.0109 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Chloroethane | U | | 0.0275 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| Chloroform | U | | 0.00667 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| Chloromethane | U | | 0.0109 | 0.0729 | 25 | 08/28/2017 16:02 | WG1012951 |
| 2-Chlorotoluene | U | | 0.00877 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 4-Chlorotoluene | U | | 0.00699 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0305 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.0100 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Dibromomethane | U | | 0.0111 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.00888 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.00697 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.00659 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.0207 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.00581 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.00772 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1-Dichloroethene | 0.0105 | J | 0.00884 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| cis-1,2-Dichloroethene | 0.0362 | | 0.00685 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| trans-1,2-Dichloroethene | 0.0159 | J | 0.00769 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.0104 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.00923 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.00604 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.00764 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.00779 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.0226 | 0.0729 | 25 | 08/28/2017 16:02 | WG1012951 |
| 2,2-Dichloropropane | U | | 0.00814 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Di-isopropyl ether | U | | 0.00723 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Ethylbenzene | U | | 0.00865 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.00997 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 2-Hexanone | U | | 0.0399 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |
| n-Hexane | U | | 0.00845 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Iodomethane | U | | 0.0737 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Isopropylbenzene | U | | 0.00709 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| p-Isopropyltoluene | U | | 0.00594 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 2-Butanone (MEK) | U | | 0.136 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Methylene Chloride | U | | 0.0291 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0548 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 0.0570 | | 0.00618 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Naphthalene | U | | 0.0291 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| n-Propylbenzene | U | | 0.00600 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Styrene | U | | 0.00682 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00769 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0106 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0106 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Tetrachloroethene | 2.66 | | 0.00804 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Toluene | U | | 0.0126 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.00892 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.0113 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.00833 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.00807 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Trichloroethene | 1.00 | | 0.00814 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Trichlorofluoromethane | U | | 0.0111 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.0216 | 0.0729 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.00615 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.00837 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.00775 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Vinyl acetate | U | | 0.0697 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Vinyl chloride | U | | 0.00849 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Xylenes, Total | U | | 0.0203 | 0.0874 | 25 | 08/28/2017 16:02 | WG1012951 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/28/2017 16:02* | WG1012951 |
| *(S) Dibromofluoromethane* | *95.2* | | | *74.0-131* | | *08/28/2017 16:02* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *98.2* | | | *64.0-132* | | *08/28/2017 16:02* | WG1012951 |

**Sample Narrative:**

L930884-06 WG1012951: Target compounds too high to run at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.2 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0580 | 1 | 08/28/2017 16:28 | WG1012951 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Bromochloromethane | U | | 0.000453 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| Bromoform | U | | 0.000492 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Bromomethane | U | | 0.00156 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Carbon disulfide | U | | 0.000257 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Chloroethane | U | | 0.00110 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| Chloroform | U | | 0.000266 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| Chloromethane | U | | 0.000435 | 0.00290 | 1 | 08/28/2017 16:28 | WG1012951 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.000398 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.000828 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.000308 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1-Dichloroethene | U | | 0.000352 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| cis-1,2-Dichloroethene | U | | 0.000273 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| trans-1,2-Dichloroethene | U | | 0.000306 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.000903 | 0.00290 | 1 | 08/28/2017 16:28 | WG1012951 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |
| n-Hexane | U | | 0.000337 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 2-Butanone (MEK) | U | | 0.00543 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Methylene Chloride | U | | 0.00116 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Naphthalene | U | | 0.00116 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Toluene | U | | 0.000504 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Trichloroethene | U | | 0.000324 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.000860 | 0.00290 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Vinyl chloride | U | | 0.000338 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Xylenes, Total | U | | 0.000810 | 0.00348 | 1 | 08/28/2017 16:28 | WG1012951 |
| *(S) Toluene-d8* | *96.9* | | | *80.0-120* | | *08/28/2017 16:28* | WG1012951 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *08/28/2017 16:28* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *99.5* | | | *64.0-132* | | *08/28/2017 16:28* | WG1012951 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.7 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0110 | 0.0551 | 1 | 08/28/2017 16:54 | WG1012951 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Benzene | U | | 0.000298 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Bromobenzene | U | | 0.000313 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Bromochloromethane | U | | 0.000430 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| Bromoform | U | | 0.000468 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Bromomethane | U | | 0.00148 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| n-Butylbenzene | U | | 0.000285 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| sec-Butylbenzene | U | | 0.000222 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Carbon disulfide | U | | 0.000244 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Carbon tetrachloride | U | | 0.000362 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Chlorodibromomethane | U | | 0.000411 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Chloroethane | U | | 0.00104 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| Chloroform | U | | 0.000253 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| Chloromethane | U | | 0.000414 | 0.00276 | 1 | 08/28/2017 16:54 | WG1012951 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 4-Chlorotoluene | U | | 0.000265 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.000378 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Dibromomethane | U | | 0.000421 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.000264 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.000249 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.000786 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.000292 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1-Dichloroethene | U | | 0.000334 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| cis-1,2-Dichloroethene | U | | 0.000259 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| trans-1,2-Dichloroethene | U | | 0.000291 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.000395 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.000350 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.000294 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.000858 | 0.00276 | 1 | 08/28/2017 16:54 | WG1012951 |
| 2,2-Dichloropropane | U | | 0.000308 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Di-isopropyl ether | U | | 0.000273 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Ethylbenzene | U | | 0.000328 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.000377 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |
| n-Hexane | U | | 0.000320 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 2-Butanone (MEK) | U | | 0.00516 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Methylene Chloride | U | | 0.00110 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00207 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000234 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Naphthalene | U | | 0.00110 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000291 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000403 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000403 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Tetrachloroethene | 0.00132 | | 0.000304 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Toluene | U | | 0.000479 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.000428 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.000315 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.000305 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Trichloroethene | 0.000436 | J | 0.000308 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Trichlorofluoromethane | U | | 0.000421 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.000817 | 0.00276 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.000233 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.000316 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.000293 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Vinyl acetate | U | | 0.00264 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Vinyl chloride | U | | 0.000321 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Xylenes, Total | U | | 0.000770 | 0.00331 | 1 | 08/28/2017 16:54 | WG1012951 |
| *(S) Toluene-d8* | *95.6* | | | *80.0-120* | | *08/28/2017 16:54* | WG1012951 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *08/28/2017 16:54* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *08/28/2017 16:54* | WG1012951 |

## Method Blank (MB)

(MB) R3244362-1 08/24/17 10:10

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.000600 | | | |

## L930884-01 Original Sample (OS) • Duplicate (DUP)

(OS) L930884-01 08/24/17 10:10 • (DUP) R3244362-3 08/24/17 10:10

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 84.8 | 85.0 | 1 | 0.269 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3244362-2 08/24/17 10:10

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 99.9 | 85.0-115 | |

## Method Blank (MB)

(MB) R3244861-3 08/26/17 14:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3244861-3 08/26/17 14:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *117* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *99.7* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3244861-1 08/26/17 13:17 • (LCSD) R3244861-2 08/26/17 13:37

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0567 | 0.0561 | 45.3 | 44.8 | 11.0-160 | | | 1.07 | 23 |
| Acrylonitrile | 0.125 | 0.101 | 0.101 | 80.6 | 80.7 | 61.0-143 | | | 0.130 | 20 |
| Benzene | 0.0250 | 0.0232 | 0.0234 | 92.6 | 93.5 | 71.0-124 | | | 0.920 | 20 |
| Bromobenzene | 0.0250 | 0.0253 | 0.0251 | 101 | 100 | 78.0-120 | | | 0.910 | 20 |
| Bromodichloromethane | 0.0250 | 0.0248 | 0.0243 | 99.1 | 97.0 | 75.0-120 | | | 2.13 | 20 |
| Bromochloromethane | 0.0250 | 0.0256 | 0.0258 | 102 | 103 | 80.0-121 | | | 0.780 | 20 |
| Bromoform | 0.0250 | 0.0255 | 0.0256 | 102 | 103 | 65.0-133 | | | 0.590 | 20 |
| Bromomethane | 0.0250 | 0.0208 | 0.0202 | 83.1 | 80.9 | 26.0-160 | | | 2.70 | 20 |
| n-Butylbenzene | 0.0250 | 0.0246 | 0.0240 | 98.4 | 95.9 | 73.0-126 | | | 2.60 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0257 | 0.0249 | 103 | 99.8 | 75.0-121 | | | 3.06 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0253 | 0.0252 | 101 | 101 | 74.0-122 | | | 0.400 | 20 |
| Carbon disulfide | 0.0250 | 0.0237 | 0.0235 | 94.9 | 93.9 | 53.0-130 | | | 1.12 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0210 | 0.0209 | 84.1 | 83.7 | 66.0-123 | | | 0.470 | 20 |
| Chlorobenzene | 0.0250 | 0.0266 | 0.0266 | 107 | 106 | 79.0-121 | | | 0.0900 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0255 | 0.0255 | 102 | 102 | 74.0-128 | | | 0.150 | 20 |
| Chloroethane | 0.0250 | 0.0218 | 0.0217 | 87.4 | 86.9 | 51.0-147 | | | 0.520 | 20 |
| Chloroform | 0.0250 | 0.0232 | 0.0232 | 92.8 | 92.6 | 73.0-123 | | | 0.210 | 20 |
| Chloromethane | 0.0250 | 0.0223 | 0.0220 | 89.4 | 87.9 | 51.0-138 | | | 1.64 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0261 | 0.0257 | 104 | 103 | 72.0-124 | | | 1.31 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0264 | 0.0255 | 106 | 102 | 78.0-120 | | | 3.32 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0218 | 0.0218 | 87.3 | 87.1 | 65.0-126 | | | 0.270 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0274 | 0.0272 | 110 | 109 | 78.0-122 | | | 1.04 | 20 |
| Dibromomethane | 0.0250 | 0.0232 | 0.0224 | 92.8 | 89.5 | 79.0-120 | | | 3.65 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0242 | 0.0239 | 96.9 | 95.4 | 80.0-120 | | | 1.53 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0253 | 0.0250 | 101 | 100 | 72.0-123 | | | 1.11 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0256 | 0.0251 | 102 | 101 | 77.0-120 | | | 1.68 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0254 | 0.0236 | 102 | 94.5 | 68.0-126 | | | 7.44 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0258 | 0.0252 | 103 | 101 | 49.0-155 | | | 2.21 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0242 | 0.0245 | 96.9 | 97.9 | 70.0-128 | | | 1.01 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0230 | 0.0228 | 91.9 | 91.1 | 69.0-128 | | | 0.860 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0226 | 0.0222 | 90.6 | 88.7 | 63.0-131 | | | 2.08 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0243 | 0.0247 | 97.1 | 98.7 | 74.0-123 | | | 1.71 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0255 | 0.0253 | 102 | 101 | 72.0-122 | | | 1.01 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0236 | 0.0239 | 94.5 | 95.6 | 75.0-126 | | | 1.22 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0239 | 0.0247 | 95.5 | 98.9 | 72.0-130 | | | 3.59 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0266 | 0.0262 | 107 | 105 | 80.0-121 | | | 1.71 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0298 | 0.0297 | 119 | 119 | 80.0-125 | | | 0.460 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0277 | 0.0273 | 111 | 109 | 75.0-129 | | | 1.59 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0169 | 0.0171 | 67.8 | 68.3 | 60.0-129 | | | 0.720 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0213 | 0.0213 | 85.2 | 85.3 | 62.0-133 | | | 0.120 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3244861-1 08/26/17 13:17 • (LCSD) R3244861-2 08/26/17 13:37

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0267 | 0.0264 | 107 | 106 | 77.0-120 | | | 1.12 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0271 | 0.0259 | 108 | 103 | 68.0-128 | | | 4.57 | 20 |
| 2-Hexanone | 0.125 | 0.0985 | 0.0970 | 78.8 | 77.6 | 61.0-143 | | | 1.44 | 20 |
| n-Hexane | 0.0250 | 0.0224 | 0.0221 | 89.5 | 88.4 | 57.0-125 | | | 1.20 | 20 |
| Iodomethane | 0.125 | 0.124 | 0.124 | 99.0 | 99.1 | 67.0-132 | | | 0.0700 | 20 |
| Isopropylbenzene | 0.0250 | 0.0250 | 0.0249 | 100 | 99.5 | 75.0-120 | | | 0.580 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0268 | 0.0260 | 107 | 104 | 74.0-125 | | | 2.96 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0748 | 0.0735 | 59.9 | 58.8 | 37.0-159 | | | 1.88 | 20 |
| Methylene Chloride | 0.0250 | 0.0222 | 0.0226 | 89.0 | 90.3 | 67.0-123 | | | 1.49 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.0992 | 0.0989 | 79.3 | 79.1 | 60.0-144 | | | 0.290 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0192 | 0.0190 | 76.8 | 76.2 | 66.0-125 | | | 0.840 | 20 |
| Naphthalene | 0.0250 | 0.0232 | 0.0228 | 92.8 | 91.3 | 64.0-125 | | | 1.59 | 20 |
| n-Propylbenzene | 0.0250 | 0.0259 | 0.0254 | 104 | 102 | 78.0-120 | | | 2.14 | 20 |
| Styrene | 0.0250 | 0.0280 | 0.0273 | 112 | 109 | 78.0-124 | | | 2.50 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0238 | 0.0235 | 95.3 | 94.0 | 74.0-124 | | | 1.39 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0220 | 0.0210 | 88.1 | 84.0 | 73.0-120 | | | 4.76 | 20 |
| Tetrachloroethene | 0.0250 | 0.0291 | 0.0287 | 117 | 115 | 70.0-127 | | | 1.49 | 20 |
| Toluene | 0.0250 | 0.0258 | 0.0256 | 103 | 102 | 77.0-120 | | | 1.00 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0207 | 0.0205 | 82.8 | 81.8 | 64.0-135 | | | 1.23 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0259 | 0.0258 | 104 | 103 | 68.0-126 | | | 0.310 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0251 | 0.0250 | 100 | 99.9 | 70.0-127 | | | 0.550 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0218 | 0.0215 | 87.2 | 85.9 | 69.0-125 | | | 1.52 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0254 | 0.0252 | 101 | 101 | 78.0-120 | | | 0.430 | 20 |
| Trichloroethene | 0.0250 | 0.0245 | 0.0248 | 98.2 | 99.2 | 79.0-120 | | | 1.01 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0217 | 0.0215 | 86.9 | 85.9 | 59.0-136 | | | 1.06 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0225 | 0.0221 | 90.1 | 88.4 | 73.0-124 | | | 1.93 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0243 | 0.0238 | 97.2 | 95.2 | 76.0-120 | | | 2.11 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0251 | 0.0244 | 100 | 97.8 | 75.0-120 | | | 2.75 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0255 | 0.0252 | 102 | 101 | 75.0-120 | | | 1.41 | 20 |
| Vinyl acetate | 0.125 | 0.117 | 0.109 | 93.3 | 87.3 | 58.0-156 | | | 6.65 | 20 |
| Vinyl chloride | 0.0250 | 0.0230 | 0.0231 | 92.1 | 92.2 | 63.0-134 | | | 0.0900 | 20 |
| Xylenes, Total | 0.0750 | 0.0791 | 0.0790 | 105 | 105 | 77.0-120 | | | 0.130 | 20 |
| *(S) Toluene-d8* | | | | *115* | *115* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *98.8* | *100* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *105* | *103* | *64.0-132* | | | | |

## Abbreviations and Definitions

| | |
|---|---|
| SDG | Sample Delivery Group. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| RDL | Reported Detection Limit. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| RPD | Relative Percent Difference. |
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Rec. | Recovery. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |

# ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.



## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

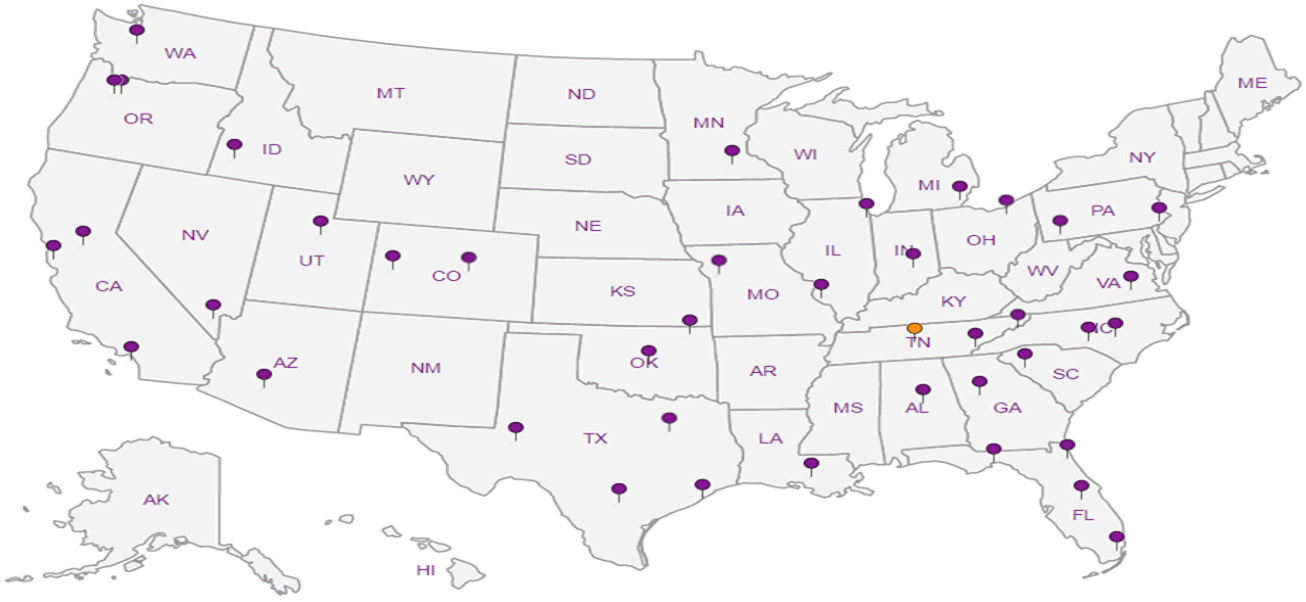
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected:

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~MW-~~ B-211-57 | GRAB | SS | 57 | 8/17/17 | 1620 | 4 | | | X | X | | | -01 |
| ~~MW-~~ B-211-60 | | SS | 60 | ↓ | 1630 | 4 | | | X | X | | | -02 |
| ~~MW-~~ B-211-65 | | SS | 65 | 8/18/17 | 0745 | 4 | | | X | X | | | -03 |
| ~~MW-~~ B-211-70 | | SS | 70 | | 0815 | 4 | | | X | X | | | -04 |
| ~~MW-~~ B-211-80 | | SS | 80 | | 0855 | 4 | | | X | X | | | -05 |
| ~~MW-~~ B-211-90 | | SS | 90 | | 1055 | 4 | | | X | X | | | -06 |
| ~~MW-~~ B-211-100 | | SS | 100 | | 1150 | 4 | | | X | X | | | -07 |
| ~~MW-~~ B-211-85-W | | GW | 85 | | 1020 | ~~6~~ 3 | | X | | | X | | -08 |
| ~~MW-~~ B-211-110 | ↓ | ~~SS~~ GW | 110 | ↓ | 1440 | ~~4~~ 3 | | X | | | X | | -09 |
| MW- | | GW | | | | 3 | | | | | X | | |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7474 0921 0778

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 3.0 °C Bottles Received: 38

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 8/18/17 | 1600 | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) |
| | | | |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | |

Date: 8-19-17 Time: 8:45

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
a subsidiary of Accutest

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 930884
A069

Acctnum: PESENVSWA
Template: T126586
Prelogin: P613274
TSR: 110 / Brian Ford
PB: 8/10/17 MG
Shipped Via: FedEX Ground

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

# MEMORANDUM

**TO:** Project File **DATE:** September 19, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** August 17-18, 2017 – Soil Samples

**LAB:** ESC Lab ID L930884

---

Four (4) soil samples and one (1) groundwater sample were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on August 17-18, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L930884. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in X# ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L934130, L934673, L934916, and). The quality assurance review of the sample data associated with SDG L930884 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested with one exception:

- Groundwater sample B-211-85-W was collected and submitted for analysis. No results are reported. PES was contacted to confirm requested analysis. PES indicated that the request for analysis was cancelled based on reported turbidity of the groundwater sample.

## Sample Collection and Preservation

Samples were collected on August 17-18, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 3.0 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C for soils:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, 2,2-dichloropropane, and 2-butanone (MEK) associated with analytical batch WG1012951 (analyzed on August 26, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs).

*Total Solids by SM 2540 G 2011:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (% solids) were not detected at a significant level in the method blank and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was not collected.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicates were not collected.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analysis was performed on client sample B-211-57. The primary/duplicate RPD for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD results for accuracy and precision data.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes. ESC notes indicate that for samples B-211-70, B-211-80, and B-211-90 the target compounds were too high to run the sample at a lower dilution.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 84.8 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U UJ | J0 | 0.0118 | 0.0590 | 1 | 08/26/2017 23:32 | WG1012951 |
| Acrylonitrile | U | | 0.00211 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Benzene | U | | 0.000318 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Bromobenzene | U | | 0.000335 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Bromodichloromethane | U | | 0.000300 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Bromochloromethane | U | | 0.000460 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| Bromoform | U | | 0.000500 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Bromomethane | U | | 0.00158 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| n-Butylbenzene | U | | 0.000304 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| sec-Butylbenzene | U | | 0.000237 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| tert-Butylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Carbon disulfide | 0.00150 | | 0.000261 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Carbon tetrachloride | U | | 0.000387 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Chlorobenzene | U | | 0.000250 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Chlorodibromomethane | U | | 0.000440 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Chloroethane | U | | 0.00112 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| Chloroform | U | | 0.000270 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| Chloromethane | U | | 0.000442 | 0.00295 | 1 | 08/26/2017 23:32 | WG1012951 |
| 2-Chlorotoluene | U | | 0.000355 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 4-Chlorotoluene | U | | 0.000283 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.000405 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Dibromomethane | U | | 0.000451 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.000360 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.000282 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.000267 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.000841 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.000235 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.000313 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1-Dichloroethene | U | | 0.000357 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| cis-1,2-Dichloroethene | 0.0830 | | 0.000277 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| trans-1,2-Dichloroethene | 0.00171 | | 0.000311 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.000422 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.000374 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.000244 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.000309 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.000315 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.000918 | 0.00295 | 1 | 08/26/2017 23:32 | WG1012951 |
| 2,2-Dichloropropane | U UJ | J0 | 0.000329 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Di-isopropyl ether | U | | 0.000292 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Ethylbenzene | U | | 0.000350 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.000403 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 2-Hexanone | U | | 0.00162 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |
| n-Hexane | 0.00389 J | J | 0.000342 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Iodomethane | U | | 0.00298 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Isopropylbenzene | U | | 0.000287 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| p-Isopropyltoluene | U | | 0.000241 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00552 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Methylene Chloride | U | | 0.00118 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00222 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000250 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Naphthalene | U | | 0.00118 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Styrene | U | | 0.000276 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000311 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000430 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000430 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Tetrachloroethene | 0.0294 J | J | 0.00814 | 0.0295 | 25 | 08/28/2017 13:28 | WG1012951 |
| Toluene | U | | 0.000512 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.000361 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.000458 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.000337 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.000327 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Trichloroethene | 0.00212 | | 0.000329 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Trichlorofluoromethane | U | | 0.000451 | 0.00590 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.000874 | 0.00295 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.000338 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.000314 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Vinyl chloride | 0.00600 | | 0.000343 | 0.00118 | 1 | 08/26/2017 23:32 | WG1012951 |
| Xylenes, Total | U | | 0.000823 | 0.00354 | 1 | 08/26/2017 23:32 | WG1012951 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/26/2017 23:32* | WG1012951 |
| *(S) Toluene-d8* | *87.1* | | | *80.0-120* | | *08/28/2017 13:28* | WG1012951 |
| *(S) Dibromofluoromethane* | *94.9* | | | *74.0-131* | | *08/28/2017 13:28* | WG1012951 |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* | | *08/26/2017 23:32* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *118* | | | *64.0-132* | | *08/26/2017 23:32* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *97.0* | | | *64.0-132* | | *08/28/2017 13:28* | WG1012951 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.7 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0115 | 0.0577 | 1 | 08/26/2017 23:52 | WG1012951 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Benzene | U | | 0.000311 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Bromobenzene | U | | 0.000327 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Bromodichloromethane | U | | 0.000293 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Bromochloromethane | U | | 0.000450 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| Bromoform | U | | 0.000489 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Bromomethane | U | | 0.00155 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| n-Butylbenzene | U | | 0.000298 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| sec-Butylbenzene | U | | 0.000232 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| tert-Butylbenzene | U | | 0.000238 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Carbon disulfide | 0.00223 | | 0.000255 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Carbon tetrachloride | U | | 0.000378 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Chlorobenzene | U | | 0.000244 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Chlorodibromomethane | U | | 0.000430 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Chloroethane | U | | 0.00109 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| Chloroform | U | | 0.000264 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| Chloromethane | U | | 0.000432 | 0.00288 | 1 | 08/26/2017 23:52 | WG1012951 |
| 2-Chlorotoluene | U | | 0.000347 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 4-Chlorotoluene | U | | 0.000277 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.000396 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Dibromomethane | U | | 0.000440 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.000276 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.000261 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.000822 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.000229 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.000306 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1-Dichloroethene | 0.00566 | | 0.000349 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| cis-1,2-Dichloroethene | 4.99 | | 0.0136 | 0.0577 | 50 | 08/28/2017 13:54 | WG1012951 |
| trans-1,2-Dichloroethene | 0.0599 | | 0.000304 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.000413 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.000366 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.000239 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.000302 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.000308 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.000897 | 0.00288 | 1 | 08/26/2017 23:52 | WG1012951 |
| 2,2-Dichloropropane | U UJ | J0 | 0.000322 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Di-isopropyl ether | U | | 0.000286 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Ethylbenzene | U | | 0.000342 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.000394 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |
| n-Hexane | U | | 0.000334 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Iodomethane | U | | 0.00292 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00540 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Methylene Chloride | U | | 0.00115 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00217 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Naphthalene | U | | 0.00115 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| n-Propylbenzene | U | | 0.000238 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Styrene | U | | 0.000270 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000304 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000421 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000421 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Tetrachloroethene | 0.162 | | 0.0159 | 0.0577 | 50 | 08/28/2017 13:54 | WG1012951 |
| Toluene | U | | 0.000500 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.000353 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.000447 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.000330 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.000319 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Trichloroethene | 0.000907 J | J | 0.000322 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Trichlorofluoromethane | U | | 0.000440 | 0.00577 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.000854 | 0.00288 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.000243 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.000331 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.000307 | 0.00115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Vinyl acetate | U | | 0.00276 | 0.0115 | 1 | 08/26/2017 23:52 | WG1012951 |
| Vinyl chloride | 1.15 | | 0.0168 | 0.0577 | 50 | 08/28/2017 13:54 | WG1012951 |
| Xylenes, Total | U | | 0.000805 | 0.00346 | 1 | 08/26/2017 23:52 | WG1012951 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *08/26/2017 23:52* | WG1012951 |
| *(S) Toluene-d8* | *99.9* | | | *80.0-120* | | *08/28/2017 13:54* | WG1012951 |
| *(S) Dibromofluoromethane* | *99.6* | | | *74.0-131* | | *08/28/2017 13:54* | WG1012951 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *08/26/2017 23:52* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *97.1* | | | *64.0-132* | | *08/28/2017 13:54* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *113* | | | *64.0-132* | | *08/26/2017 23:52* | WG1012951 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.6 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0113 | 0.0564 | 1 | 08/27/2017 00:11 | WG1012951 |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Benzene | U | | 0.000305 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Bromobenzene | U | | 0.000321 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Bromodichloromethane | U | | 0.000287 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Bromochloromethane | U | | 0.000440 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| Bromoform | U | | 0.000479 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Bromomethane | U | | 0.00151 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| n-Butylbenzene | U | | 0.000291 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| sec-Butylbenzene | U | | 0.000227 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| tert-Butylbenzene | U | | 0.000233 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Carbon disulfide | 0.00239 | | 0.000249 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Carbon tetrachloride | U | | 0.000370 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Chlorobenzene | U | | 0.000239 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Chlorodibromomethane | U | | 0.000421 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Chloroethane | U | | 0.00107 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| Chloroform | U | | 0.000258 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| Chloromethane | U | | 0.000423 | 0.00282 | 1 | 08/27/2017 00:11 | WG1012951 |
| 2-Chlorotoluene | U | | 0.000340 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 4-Chlorotoluene | U | | 0.000271 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.000387 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Dibromomethane | U | | 0.000431 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.000344 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.000270 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.000255 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.000805 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.000299 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1-Dichloroethene | 0.00722 | | 0.000342 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| cis-1,2-Dichloroethene | 5.58 | | 0.0133 | 0.0564 | 50 | 08/28/2017 14:20 | WG1012951 |
| trans-1,2-Dichloroethene | 0.0110 | | 0.000298 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.000404 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.000358 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.000296 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.000301 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.000878 | 0.00282 | 1 | 08/27/2017 00:11 | WG1012951 |
| 2,2-Dichloropropane | U UJ | J0 | 0.000315 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Di-isopropyl ether | U | | 0.000280 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Ethylbenzene | U | | 0.000335 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.000386 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |
| n-Hexane | U | | 0.000327 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Iodomethane | U | | 0.00286 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Isopropylbenzene | U | | 0.000274 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| p-Isopropyltoluene | U | | 0.000230 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00528 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Methylene Chloride | U | | 0.00113 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00212 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000239 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Naphthalene | U | | 0.00113 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| n-Propylbenzene | U | | 0.000233 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Styrene | U | | 0.000264 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000298 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000412 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000412 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Tetrachloroethene | 7.42 | | 0.0156 | 0.0564 | 50 | 08/28/2017 14:20 | WG1012951 |
| Toluene | 0.00201 J | J | 0.000490 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.000438 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.000323 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.000313 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Trichloroethene | 1.15 | | 0.0158 | 0.0564 | 50 | 08/28/2017 14:20 | WG1012951 |
| Trichlorofluoromethane | U | | 0.000431 | 0.00564 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.000836 | 0.00282 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.000238 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.000324 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.000300 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Vinyl acetate | U | | 0.00270 | 0.0113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Vinyl chloride | 0.0421 | | 0.000328 | 0.00113 | 1 | 08/27/2017 00:11 | WG1012951 |
| Xylenes, Total | U | | 0.000788 | 0.00339 | 1 | 08/27/2017 00:11 | WG1012951 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *08/27/2017 00:11* | WG1012951 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/28/2017 14:20* | WG1012951 |
| *(S) Dibromofluoromethane* | *98.4* | | | *74.0-131* | | *08/28/2017 14:20* | WG1012951 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/27/2017 00:11* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *97.8* | | | *64.0-132* | | *08/28/2017 14:20* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *115* | | | *64.0-132* | | *08/27/2017 00:11* | WG1012951 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.5 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U | | 5.98 | 29.9 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Acrylonitrile | U | | 1.07 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Benzene | U | | 0.162 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Bromobenzene | U | | 0.170 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Bromodichloromethane | U | | 0.152 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Bromochloromethane | U | | 0.233 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Bromoform | U | | 0.254 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Bromomethane | U | | 0.802 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 | |
| n-Butylbenzene | U | | 0.154 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| sec-Butylbenzene | U | | 0.120 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| tert-Butylbenzene | U | | 0.123 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Carbon disulfide | U | | 0.132 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Carbon tetrachloride | U | | 0.196 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Chlorobenzene | U | | 0.127 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Chlorodibromomethane | U | | 0.223 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Chloroethane | U | | 0.566 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Chloroform | U | | 0.136 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Chloromethane | U | | 0.225 | 1.50 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 2-Chlorotoluene | U | | 0.180 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 4-Chlorotoluene | U | | 0.144 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.628 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 1,2-Dibromoethane | U | | 0.206 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Dibromomethane | U | | 0.229 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 1,2-Dichlorobenzene | U | | 0.182 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 1,3-Dichlorobenzene | U | | 0.144 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 1,4-Dichlorobenzene | U | | 0.135 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Dichlorodifluoromethane | U | | 0.426 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 1,1-Dichloroethane | U | | 0.119 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 1,2-Dichloroethane | U | | 0.158 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 1,1-Dichloroethene | U | | 0.182 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| cis-1,2-Dichloroethene | 3.96 | | 0.141 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| trans-1,2-Dichloroethene | U | | 0.158 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 1,2-Dichloropropane | U | | 0.214 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 1,1-Dichloropropene | U | | 0.189 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 1,3-Dichloropropane | U | | 0.124 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| cis-1,3-Dichloropropene | U | | 0.157 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| trans-1,3-Dichloropropene | U | | 0.160 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| trans-1,4-Dichloro-2-butene | U | | 0.466 | 1.50 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 2,2-Dichloropropane | U | | 0.168 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Di-isopropyl ether | U | | 0.148 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Ethylbenzene | U | | 0.177 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Hexachloro-1,3-butadiene | U | | 0.205 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 2-Hexanone | U | | 0.820 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 | |
| n-Hexane | U | | 0.174 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Iodomethane | U | | 1.51 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Isopropylbenzene | U | | 0.146 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| p-Isopropyltoluene | U | | 0.122 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 | |
| 2-Butanone (MEK) | U | | 2.80 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 | |
| Methylene Chloride | U | | 0.598 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 | JC 9/19/17 |
| 4-Methyl-2-pentanone (MIBK) | U | | 1.13 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 | |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 0.202 J | J | 0.127 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Naphthalene | U | | 0.598 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 |
| n-Propylbenzene | U | | 0.123 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Styrene | U | | 0.140 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.158 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.218 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.218 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Tetrachloroethene | 46.1 | | 0.165 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Toluene | U | | 0.260 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.183 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.232 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.171 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.165 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Trichloroethene | 2.88 | | 0.168 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Trichlorofluoromethane | U | | 0.229 | 2.99 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.443 | 1.50 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.127 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.172 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.159 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Vinyl acetate | U | | 1.44 | 5.98 | 500 | 08/28/2017 14:46 | WG1012951 |
| Vinyl chloride | U | | 0.175 | 0.598 | 500 | 08/28/2017 14:46 | WG1012951 |
| Xylenes, Total | U | | 0.418 | 1.80 | 500 | 08/28/2017 14:46 | WG1012951 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *08/28/2017 14:46* | WG1012951 |
| *(S) Dibromofluoromethane* | *99.2* | | | *74.0-131* | | *08/28/2017 14:46* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *99.7* | | | *64.0-132* | | *08/28/2017 14:46* | WG1012951 |

**Sample Narrative:**

L930884-04 WG1012951: Target compounds too high to run at a lower dilution.

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.3 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.271 | 1.35 | 25 | 08/28/2017 15:36 | WG1012951 |
| Acrylonitrile | U | | 0.0485 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Benzene | U | | 0.00731 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Bromobenzene | U | | 0.00769 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Bromodichloromethane | U | | 0.00688 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Bromochloromethane | U | | 0.0106 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| Bromoform | U | | 0.0115 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Bromomethane | U | | 0.0363 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| n-Butylbenzene | U | | 0.00698 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| sec-Butylbenzene | U | | 0.00544 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| tert-Butylbenzene | U | | 0.00558 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Carbon disulfide | U | | 0.00598 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Carbon tetrachloride | U | | 0.00888 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Chlorobenzene | U | | 0.00574 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Chlorodibromomethane | U | | 0.0101 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Chloroethane | U | | 0.0256 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| Chloroform | U | | 0.00619 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| Chloromethane | U | | 0.0102 | 0.0677 | 25 | 08/28/2017 15:36 | WG1012951 |
| 2-Chlorotoluene | U | | 0.00814 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 4-Chlorotoluene | U | | 0.00650 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0284 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.00929 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Dibromomethane | U | | 0.0103 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.00825 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.00648 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.00612 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.0193 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.00539 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.00717 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1-Dichloroethene | U | | 0.00821 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| cis-1,2-Dichloroethene | 0.172 | | 0.00637 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| trans-1,2-Dichloroethene | U | | 0.00715 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.00969 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.00858 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.00561 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.00709 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.00723 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.0210 | 0.0677 | 25 | 08/28/2017 15:36 | WG1012951 |
| 2,2-Dichloropropane | U | | 0.00756 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Di-isopropyl ether | U | | 0.00671 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Ethylbenzene | U | | 0.00804 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.00926 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 2-Hexanone | U | | 0.0370 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |
| n-Hexane | U | | 0.00785 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Iodomethane | U | | 0.0684 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Isopropylbenzene | U | | 0.00658 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| p-Isopropyltoluene | U | | 0.00552 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 2-Butanone (MEK) | U | | 0.127 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Methylene Chloride | U | | 0.0271 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0509 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 0.0548 | | 0.00574 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Naphthalene | U | | 0.0271 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| n-Propylbenzene | U | | 0.00558 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Styrene | U | | 0.00634 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00715 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00988 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00988 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Tetrachloroethene | 9.34 | | 0.149 | 0.541 | 500 | 08/28/2017 19:56 | WG1012951 |
| Toluene | U | | 0.0117 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.00828 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.0105 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.00774 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.00749 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Trichloroethene | 0.495 | | 0.00756 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Trichlorofluoromethane | U | | 0.0103 | 0.135 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.0200 | 0.0677 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.00572 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.00778 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.00720 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Vinyl acetate | U | | 0.0648 | 0.271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Vinyl chloride | U | | 0.00788 | 0.0271 | 25 | 08/28/2017 15:36 | WG1012951 |
| Xylenes, Total | U | | 0.0188 | 0.0812 | 25 | 08/28/2017 15:36 | WG1012951 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/28/2017 15:36* | WG1012951 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *08/28/2017 19:56* | WG1012951 |
| *(S) Dibromofluoromethane* | *93.7* | | | *74.0-131* | | *08/28/2017 15:36* | WG1012951 |
| *(S) Dibromofluoromethane* | *98.6* | | | *74.0-131* | | *08/28/2017 19:56* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *08/28/2017 15:36* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *64.0-132* | | *08/28/2017 19:56* | WG1012951 |

**Sample Narrative:**

L930884-05 WG1012951: Target compounds too high to run at a lower dilution.

JC 9/19/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.8 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.291 | 1.46 | 25 | 08/28/2017 16:02 | WG1012951 |
| Acrylonitrile | U | | 0.0522 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Benzene | U | | 0.00787 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Bromobenzene | U | | 0.00828 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Bromodichloromethane | U | | 0.00740 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Bromochloromethane | U | | 0.0114 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| Bromoform | U | | 0.0124 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Bromomethane | U | | 0.0391 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| n-Butylbenzene | U | | 0.00752 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| sec-Butylbenzene | U | | 0.00585 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| tert-Butylbenzene | U | | 0.00600 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Carbon disulfide | U | | 0.00643 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Carbon tetrachloride | U | | 0.00956 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Chlorobenzene | U | | 0.00618 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Chlorodibromomethane | U | | 0.0109 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Chloroethane | U | | 0.0275 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| Chloroform | U | | 0.00667 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| Chloromethane | U | | 0.0109 | 0.0729 | 25 | 08/28/2017 16:02 | WG1012951 |
| 2-Chlorotoluene | U | | 0.00877 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 4-Chlorotoluene | U | | 0.00699 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0305 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.0100 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Dibromomethane | U | | 0.0111 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.00888 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.00697 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.00659 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.0207 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.00581 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.00772 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1-Dichloroethene | 0.0105 | J | 0.00884 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| cis-1,2-Dichloroethene | 0.0362 | | 0.00685 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| trans-1,2-Dichloroethene | 0.0159 | J | 0.00769 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.0104 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.00923 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.00604 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.00764 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.00779 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.0226 | 0.0729 | 25 | 08/28/2017 16:02 | WG1012951 |
| 2,2-Dichloropropane | U | | 0.00814 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Di-isopropyl ether | U | | 0.00723 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Ethylbenzene | U | | 0.00865 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.00997 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 2-Hexanone | U | | 0.0399 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |
| n-Hexane | U | | 0.00845 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Iodomethane | U | | 0.0737 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Isopropylbenzene | U | | 0.00709 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| p-Isopropyltoluene | U | | 0.00594 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 2-Butanone (MEK) | U | | 0.136 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Methylene Chloride | U | | 0.0291 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0548 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 0.0570 | | 0.00618 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Naphthalene | U | | 0.0291 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| n-Propylbenzene | U | | 0.00600 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Styrene | U | | 0.00682 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00769 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0106 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0106 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Tetrachloroethene | 2.66 | | 0.00804 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Toluene | U | | 0.0126 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.00892 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.0113 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.00833 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.00807 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Trichloroethene | 1.00 | | 0.00814 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Trichlorofluoromethane | U | | 0.0111 | 0.146 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.0216 | 0.0729 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.00615 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.00837 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.00775 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Vinyl acetate | U | | 0.0697 | 0.291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Vinyl chloride | U | | 0.00849 | 0.0291 | 25 | 08/28/2017 16:02 | WG1012951 |
| Xylenes, Total | U | | 0.0203 | 0.0874 | 25 | 08/28/2017 16:02 | WG1012951 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/28/2017 16:02* | WG1012951 |
| *(S) Dibromofluoromethane* | *95.2* | | | *74.0-131* | | *08/28/2017 16:02* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *98.2* | | | *64.0-132* | | *08/28/2017 16:02* | WG1012951 |

**Sample Narrative:**

L930884-06 WG1012951: Target compounds too high to run at a lower dilution.

JC 9/19/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.2 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0580 | 1 | 08/28/2017 16:28 | WG1012951 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Bromochloromethane | U | | 0.000453 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| Bromoform | U | | 0.000492 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Bromomethane | U | | 0.00156 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Carbon disulfide | U | | 0.000257 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Chloroethane | U | | 0.00110 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| Chloroform | U | | 0.000266 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| Chloromethane | U | | 0.000435 | 0.00290 | 1 | 08/28/2017 16:28 | WG1012951 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.000398 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.000828 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.000308 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1-Dichloroethene | U | | 0.000352 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| cis-1,2-Dichloroethene | U | | 0.000273 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| trans-1,2-Dichloroethene | U | | 0.000306 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.000903 | 0.00290 | 1 | 08/28/2017 16:28 | WG1012951 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |
| n-Hexane | U | | 0.000337 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 2-Butanone (MEK) | U | | 0.00543 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Methylene Chloride | U | | 0.00116 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Naphthalene | U | | 0.00116 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Toluene | U | | 0.000504 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Trichloroethene | U | | 0.000324 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00580 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.000860 | 0.00290 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Vinyl chloride | U | | 0.000338 | 0.00116 | 1 | 08/28/2017 16:28 | WG1012951 |
| Xylenes, Total | U | | 0.000810 | 0.00348 | 1 | 08/28/2017 16:28 | WG1012951 |
| *(S) Toluene-d8* | *96.9* | | | *80.0-120* | | *08/28/2017 16:28* | WG1012951 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *08/28/2017 16:28* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *99.5* | | | *64.0-132* | | *08/28/2017 16:28* | WG1012951 |

JC 9/19/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.7 | | 1 | 08/24/2017 10:10 | WG1013068 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0110 | 0.0551 | 1 | 08/28/2017 16:54 | WG1012951 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Benzene | U | | 0.000298 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Bromobenzene | U | | 0.000313 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Bromochloromethane | U | | 0.000430 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| Bromoform | U | | 0.000468 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Bromomethane | U | | 0.00148 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| n-Butylbenzene | U | | 0.000285 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| sec-Butylbenzene | U | | 0.000222 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Carbon disulfide | U | | 0.000244 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Carbon tetrachloride | U | | 0.000362 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Chlorodibromomethane | U | | 0.000411 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Chloroethane | U | | 0.00104 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| Chloroform | U | | 0.000253 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| Chloromethane | U | | 0.000414 | 0.00276 | 1 | 08/28/2017 16:54 | WG1012951 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 4-Chlorotoluene | U | | 0.000265 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2-Dibromoethane | U | | 0.000378 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Dibromomethane | U | | 0.000421 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2-Dichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,3-Dichlorobenzene | U | | 0.000264 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,4-Dichlorobenzene | U | | 0.000249 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Dichlorodifluoromethane | U | | 0.000786 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2-Dichloroethane | U | | 0.000292 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1-Dichloroethene | U | | 0.000334 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| cis-1,2-Dichloroethene | U | | 0.000259 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| trans-1,2-Dichloroethene | U | | 0.000291 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2-Dichloropropane | U | | 0.000395 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1-Dichloropropene | U | | 0.000350 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| trans-1,3-Dichloropropene | U | | 0.000294 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| trans-1,4-Dichloro-2-butene | U | | 0.000858 | 0.00276 | 1 | 08/28/2017 16:54 | WG1012951 |
| 2,2-Dichloropropane | U | | 0.000308 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Di-isopropyl ether | U | | 0.000273 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Ethylbenzene | U | | 0.000328 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Hexachloro-1,3-butadiene | U | | 0.000377 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |
| n-Hexane | U | | 0.000320 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 2-Butanone (MEK) | U | | 0.00516 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Methylene Chloride | U | | 0.00110 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00207 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |

JC 9/19/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000234 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Naphthalene | U | | 0.00110 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000291 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000403 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000403 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Tetrachloroethene | 0.00132 | | 0.000304 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Toluene | U | | 0.000479 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2,3-Trichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2,4-Trichlorobenzene | U | | 0.000428 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1,1-Trichloroethane | U | | 0.000315 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,1,2-Trichloroethane | U | | 0.000305 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Trichloroethene | 0.000436 J | J | 0.000308 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Trichlorofluoromethane | U | | 0.000421 | 0.00551 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2,3-Trichloropropane | U | | 0.000817 | 0.00276 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2,4-Trimethylbenzene | U | | 0.000233 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,2,3-Trimethylbenzene | U | | 0.000316 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| 1,3,5-Trimethylbenzene | U | | 0.000293 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Vinyl acetate | U | | 0.00264 | 0.0110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Vinyl chloride | U | | 0.000321 | 0.00110 | 1 | 08/28/2017 16:54 | WG1012951 |
| Xylenes, Total | U | | 0.000770 | 0.00331 | 1 | 08/28/2017 16:54 | WG1012951 |
| *(S) Toluene-d8* | *95.6* | | | *80.0-120* | | *08/28/2017 16:54* | WG1012951 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *08/28/2017 16:54* | WG1012951 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *08/28/2017 16:54* | WG1012951 |

JC 9/19/17

# ANALYTICAL REPORT

August 30, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L931390 |
| Samples Received: | 08/23/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Jason Romer
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-211-120 L931390-01 Solid

Collected by: Shannon McKernan | Collected date/time: 08/21/17 10:00 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013766 | 1 | 08/28/17 12:21 | 08/28/17 12:37 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013442 | 1 | 08/21/17 10:00 | 08/25/17 03:55 | LRL |

## B-210-6 L931390-02 Solid

Collected by: Shannon McKernan | Collected date/time: 08/21/17 15:15 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013766 | 1 | 08/28/17 12:21 | 08/28/17 12:37 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013442 | 1 | 08/21/17 15:15 | 08/25/17 04:15 | LRL |

## B-210-15 L931390-03 Solid

Collected by: Shannon McKernan | Collected date/time: 08/21/17 15:30 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013766 | 1 | 08/28/17 12:21 | 08/28/17 12:37 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1013897 | 25 | 08/21/17 15:30 | 08/27/17 02:52 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013442 | 25 | 08/21/17 15:30 | 08/28/17 17:20 | BMB |

## B-210-20 L931390-04 Solid

Collected by: Shannon McKernan | Collected date/time: 08/21/17 15:35 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013766 | 1 | 08/28/17 12:21 | 08/28/17 12:37 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1013897 | 1 | 08/21/17 15:35 | 08/29/17 14:24 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013442 | 1 | 08/21/17 15:35 | 08/25/17 04:57 | LRL |

## B-210-35 L931390-05 Solid

Collected by: Shannon McKernan | Collected date/time: 08/21/17 16:05 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013768 | 1 | 08/28/17 16:20 | 08/28/17 16:45 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1013897 | 1 | 08/21/17 16:05 | 08/27/17 03:14 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013442 | 1 | 08/21/17 16:05 | 08/25/17 05:17 | LRL |

## B-210-46 L931390-06 Solid

Collected by: Shannon McKernan | Collected date/time: 08/21/17 16:40 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013768 | 1 | 08/28/17 16:20 | 08/28/17 16:45 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1013897 | 1 | 08/21/17 16:40 | 08/27/17 03:37 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013442 | 1 | 08/21/17 16:40 | 08/25/17 05:38 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013442 | 105 | 08/21/17 16:40 | 08/28/17 17:46 | BMB |

## B-210-60 L931390-07 Solid

Collected by: Shannon McKernan | Collected date/time: 08/22/17 07:45 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013768 | 1 | 08/28/17 16:20 | 08/28/17 16:45 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1013897 | 25 | 08/22/17 07:45 | 08/27/17 07:04 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013442 | 25 | 08/22/17 07:45 | 08/28/17 18:12 | BMB |

## B-211-120-W L931390-08 GW

Collected by: Shannon McKernan | Collected date/time: 08/21/17 11:00 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1013145 | 1 | 08/27/17 16:52 | 08/27/17 16:52 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013682 | 1 | 08/25/17 12:48 | 08/25/17 12:48 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013682 | 50 | 08/30/17 02:27 | 08/30/17 02:27 | ACG |

## TRIP BLANK-082217 L931390-09 GW

Collected by: Shannon McKernan | Collected date/time: 08/21/17 00:00 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013682 | 1 | 08/25/17 12:08 | 08/25/17 12:08 | JAH |

## B-210-70 L931390-10 Solid

Collected by: Shannon McKernan | Collected date/time: 08/22/17 09:10 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013768 | 1 | 08/28/17 16:20 | 08/28/17 16:45 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1013897 | 1 | 08/22/17 09:10 | 08/27/17 04:04 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013442 | 1 | 08/22/17 09:10 | 08/25/17 06:19 | LRL |

## B-210-80 L931390-11 Solid

Collected by: Shannon McKernan | Collected date/time: 08/22/17 11:00 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013768 | 1 | 08/28/17 16:20 | 08/28/17 16:45 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1013897 | 1 | 08/22/17 11:00 | 08/27/17 04:52 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013442 | 1 | 08/22/17 11:00 | 08/25/17 06:40 | LRL |

## B-900-20 L931390-12 Solid

Collected by: Shannon McKernan | Collected date/time: 08/22/17 13:00 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013768 | 1 | 08/28/17 16:20 | 08/28/17 16:45 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1013897 | 1 | 08/22/17 13:00 | 08/27/17 05:14 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013442 | 1 | 08/22/17 13:00 | 08/25/17 07:01 | LRL |

## MW-132-20 L931390-13 Solid

Collected by: Shannon McKernan | Collected date/time: 08/22/17 14:10 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013768 | 1 | 08/28/17 16:20 | 08/28/17 16:45 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1013897 | 1 | 08/22/17 14:10 | 08/27/17 05:36 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013442 | 1 | 08/22/17 14:10 | 08/25/17 07:21 | LRL |

## MW-132-35 L931390-14 Solid

Collected by: Shannon McKernan | Collected date/time: 08/22/17 15:05 | Received date/time: 08/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1013768 | 1 | 08/28/17 16:20 | 08/28/17 16:45 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1013897 | 1 | 08/22/17 15:05 | 08/27/17 05:58 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013442 | 1 | 08/22/17 15:05 | 08/25/17 07:42 | LRL |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.1 | | 1 | 08/28/2017 12:37 | WG1013766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0112 | 0.0561 | 1 | 08/25/2017 03:55 | WG1013442 |
| Acrylonitrile | U | | 0.00201 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Benzene | U | | 0.000303 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Bromobenzene | U | | 0.000319 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Bromodichloromethane | U | | 0.000285 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Bromochloromethane | U | | 0.000438 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| Bromoform | U | | 0.000476 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Bromomethane | U | J3 | 0.00150 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| n-Butylbenzene | U | | 0.000289 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| sec-Butylbenzene | U | | 0.000226 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| tert-Butylbenzene | U | | 0.000231 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Carbon disulfide | U | J3 | 0.000248 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Carbon tetrachloride | U | | 0.000368 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Chlorobenzene | U | | 0.000238 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Chlorodibromomethane | U | | 0.000418 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Chloroethane | U | J3 | 0.00106 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| Chloroform | U | | 0.000257 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| Chloromethane | U | J0 J3 | 0.000421 | 0.00280 | 1 | 08/25/2017 03:55 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000338 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000269 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000385 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Dibromomethane | U | | 0.000429 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000268 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000254 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Dichlorodifluoromethane | U | J0 J3 J4 | 0.000800 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000223 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000297 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000340 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| cis-1,2-Dichloroethene | U | | 0.000264 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000296 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000402 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000356 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000232 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000294 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000300 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000873 | 0.00280 | 1 | 08/25/2017 03:55 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000313 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Di-isopropyl ether | U | | 0.000278 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Ethylbenzene | U | | 0.000333 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000384 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 2-Hexanone | U | | 0.00154 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |
| n-Hexane | U | J3 | 0.000325 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Iodomethane | U | | 0.00284 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Isopropylbenzene | U | | 0.000273 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000229 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00525 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Methylene Chloride | U | | 0.00112 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00211 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000238 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Naphthalene | U | | 0.00112 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| n-Propylbenzene | U | | 0.000231 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Styrene | U | | 0.000263 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000296 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000409 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000409 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Tetrachloroethene | 0.000628 | J | 0.000310 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Toluene | U | | 0.000487 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000343 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000435 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000321 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000311 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Trichloroethene | 0.000423 | J | 0.000313 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000429 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000831 | 0.00280 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000237 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000322 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000298 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Vinyl acetate | U | | 0.00268 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Vinyl chloride | U | J3 J4 | 0.000326 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Xylenes, Total | U | | 0.000783 | 0.00337 | 1 | 08/25/2017 03:55 | WG1013442 |
| *(S) Toluene-d8* | *97.3* | | | *80.0-120* | | *08/25/2017 03:55* | WG1013442 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *08/25/2017 03:55* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *96.7* | | | *64.0-132* | | *08/25/2017 03:55* | WG1013442 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.8 | | 1 | 08/28/2017 12:37 | WG1013766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0351 | J | 0.0118 | 0.0589 | 1 | 08/25/2017 04:15 | WG1013442 |
| Acrylonitrile | U | | 0.00211 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Benzene | U | | 0.000318 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Bromobenzene | U | | 0.000335 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Bromodichloromethane | U | | 0.000299 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Bromochloromethane | U | | 0.000460 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| Bromoform | U | | 0.000500 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Bromomethane | U | J3 | 0.00158 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| n-Butylbenzene | U | | 0.000304 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| sec-Butylbenzene | U | | 0.000237 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| tert-Butylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Carbon disulfide | 0.000327 | J J3 | 0.000261 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Carbon tetrachloride | U | | 0.000387 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Chlorobenzene | U | | 0.000250 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Chlorodibromomethane | U | | 0.000440 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Chloroethane | U | J3 | 0.00112 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| Chloroform | U | | 0.000270 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| Chloromethane | U | J0 J3 | 0.000442 | 0.00295 | 1 | 08/25/2017 04:15 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000355 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000283 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000404 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Dibromomethane | U | | 0.000450 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000360 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000282 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000266 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Dichlorodifluoromethane | U | J0 J3 J4 | 0.000841 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000235 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000312 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000357 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| cis-1,2-Dichloroethene | 0.000287 | J | 0.000277 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000311 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000422 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000374 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000244 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000309 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000315 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000917 | 0.00295 | 1 | 08/25/2017 04:15 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000329 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Di-isopropyl ether | U | | 0.000292 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Ethylbenzene | U | | 0.000350 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000403 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 2-Hexanone | U | | 0.00162 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |
| n-Hexane | U | J3 | 0.000342 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Iodomethane | U | | 0.00298 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Isopropylbenzene | U | | 0.000286 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000241 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00552 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Methylene Chloride | U | | 0.00118 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00222 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000250 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Naphthalene | U | | 0.00118 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Styrene | U | | 0.000276 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000311 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000430 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000430 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Tetrachloroethene | 0.0313 | | 0.000325 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Toluene | U | | 0.000512 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000361 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000457 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000337 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000327 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Trichloroethene | 0.00234 | | 0.000329 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000450 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000874 | 0.00295 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000338 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000314 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Vinyl chloride | U | J3 J4 | 0.000343 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Xylenes, Total | U | | 0.000823 | 0.00354 | 1 | 08/25/2017 04:15 | WG1013442 |
| *(S) Toluene-d8* | *97.2* | | | *80.0-120* | | *08/25/2017 04:15* | WG1013442 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *08/25/2017 04:15* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *94.4* | | | *64.0-132* | | *08/25/2017 04:15* | WG1013442 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.3 | | 1 | 08/28/2017 12:37 | WG1013766 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.919 | 2.71 | 25 | 08/27/2017 02:52 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.3* | | | *77.0-120* | | *08/27/2017 02:52* | WG1013897 |

**Sample Narrative:**

L931390-03 WG1013897: Elevated RL. Reported from MEOH vial. Bisulfates used in previous runs.

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.271 | 1.35 | 25 | 08/28/2017 17:20 | WG1013442 |
| Acrylonitrile | U | | 0.0485 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Benzene | U | | 0.00731 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Bromobenzene | U | | 0.00769 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Bromodichloromethane | U | | 0.00688 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Bromochloromethane | U | | 0.0106 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| Bromoform | U | | 0.0115 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Bromomethane | U | J3 | 0.0363 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| n-Butylbenzene | U | | 0.00699 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| sec-Butylbenzene | U | | 0.00544 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| tert-Butylbenzene | U | | 0.00558 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Carbon disulfide | U | J3 | 0.00598 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Carbon tetrachloride | U | | 0.00889 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Chlorobenzene | U | | 0.00574 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Chlorodibromomethane | U | | 0.0101 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Chloroethane | U | J3 | 0.0256 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| Chloroform | U | | 0.00620 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| Chloromethane | U | J3 | 0.0102 | 0.0677 | 25 | 08/28/2017 17:20 | WG1013442 |
| 2-Chlorotoluene | U | | 0.00815 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 4-Chlorotoluene | U | | 0.00650 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0284 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.00930 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Dibromomethane | U | | 0.0103 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.00826 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.00648 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.00612 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Dichlorodifluoromethane | U | J3 J4 | 0.0193 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.00540 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.00717 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.00821 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| cis-1,2-Dichloroethene | U | | 0.00637 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.00715 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.00970 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.00858 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.00561 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.00710 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.00724 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.0210 | 0.0677 | 25 | 08/28/2017 17:20 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.00756 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Di-isopropyl ether | U | | 0.00672 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Ethylbenzene | U | | 0.00804 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | U | | 0.00927 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 2-Hexanone | U | | 0.0371 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| n-Hexane | U | J3 | 0.00786 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Iodomethane | U | | 0.0685 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Isopropylbenzene | U | | 0.00659 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| p-Isopropyltoluene | U | | 0.00553 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.127 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Methylene Chloride | U | | 0.0271 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0509 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Methyl tert-butyl ether | 0.0523 | | 0.00574 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Naphthalene | U | | 0.0271 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| n-Propylbenzene | U | | 0.00558 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Styrene | U | | 0.00634 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00715 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00988 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00988 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Tetrachloroethene | 0.0730 | | 0.00748 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Toluene | U | | 0.0117 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.00829 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.0105 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.00775 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.00750 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Trichloroethene | 0.0647 | | 0.00756 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.0103 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.0200 | 0.0677 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.00572 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.00778 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.00721 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Vinyl acetate | U | | 0.0648 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Vinyl chloride | U | J3 J4 | 0.00789 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Xylenes, Total | U | | 0.0189 | 0.0813 | 25 | 08/28/2017 17:20 | WG1013442 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/28/2017 17:20* | WG1013442 |
| *(S) Dibromofluoromethane* | *97.9* | | | *74.0-131* | | *08/28/2017 17:20* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *97.0* | | | *64.0-132* | | *08/28/2017 17:20* | WG1013442 |

Sample Narrative:

L931390-03 WG1013442: No stir bars remain for analysis.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.8 | | 1 | 08/28/2017 12:37 | WG1013766 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0378 | 0.111 | 1 | 08/29/2017 14:24 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.0* | | | *77.0-120* | | *08/29/2017 14:24* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0111 | 0.0557 | 1 | 08/25/2017 04:57 | WG1013442 |
| Acrylonitrile | U | | 0.00199 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Benzene | U | | 0.000301 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Bromobenzene | U | | 0.000316 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Bromodichloromethane | U | | 0.000283 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Bromochloromethane | U | | 0.000434 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| Bromoform | U | | 0.000472 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Bromomethane | U | J3 | 0.00149 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| n-Butylbenzene | U | | 0.000287 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| sec-Butylbenzene | U | | 0.000224 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| tert-Butylbenzene | U | | 0.000229 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Carbon disulfide | U | J3 | 0.000246 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Carbon tetrachloride | U | | 0.000365 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Chlorobenzene | U | | 0.000236 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Chlorodibromomethane | U | | 0.000416 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Chloroethane | U | J3 | 0.00105 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| Chloroform | U | | 0.000255 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| Chloromethane | U | J0 J3 | 0.000418 | 0.00279 | 1 | 08/25/2017 04:57 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000335 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000267 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000382 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Dibromomethane | U | | 0.000426 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000340 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000266 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Dichlorodifluoromethane | U | J0 J3 J4 | 0.000794 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000295 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000338 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| cis-1,2-Dichloroethene | 0.00185 | | 0.000262 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000294 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000399 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000353 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000292 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000297 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000867 | 0.00279 | 1 | 08/25/2017 04:57 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000311 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Di-isopropyl ether | U | | 0.000276 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Ethylbenzene | U | | 0.000331 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000381 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 2-Hexanone | U | | 0.00153 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |
| n-Hexane | U | J3 | 0.000323 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00282 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Isopropylbenzene | U | | 0.000271 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000227 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00521 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Methylene Chloride | U | | 0.00111 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00209 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000236 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Naphthalene | U | | 0.00111 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| n-Propylbenzene | U | | 0.000229 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Styrene | U | | 0.000261 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000294 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000407 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000407 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Tetrachloroethene | U | | 0.000307 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Toluene | U | | 0.000484 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000341 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000432 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Trichloroethene | U | | 0.000311 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000426 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000826 | 0.00279 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000235 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000296 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Vinyl acetate | U | | 0.00266 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Vinyl chloride | 0.000499 | J J3 J4 | 0.000324 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Xylenes, Total | U | | 0.000778 | 0.00334 | 1 | 08/25/2017 04:57 | WG1013442 |
| *(S) Toluene-d8* | *98.0* | | | *80.0-120* | | *08/25/2017 04:57* | WG1013442 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *08/25/2017 04:57* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *93.0* | | | *64.0-132* | | *08/25/2017 04:57* | WG1013442 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.6 | J3 | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0391 | 0.115 | 1 | 08/27/2017 03:14 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.2* | | | *77.0-120* | | *08/27/2017 03:14* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0115 | 0.0577 | 1 | 08/25/2017 05:17 | WG1013442 |
| Acrylonitrile | U | | 0.00207 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Benzene | U | | 0.000312 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Bromobenzene | U | | 0.000328 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Bromodichloromethane | U | | 0.000293 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Bromochloromethane | U | | 0.000450 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| Bromoform | U | | 0.000489 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Bromomethane | U | J3 | 0.00155 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| n-Butylbenzene | U | | 0.000298 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| sec-Butylbenzene | U | | 0.000232 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| tert-Butylbenzene | U | | 0.000238 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Carbon disulfide | 0.000783 | J J3 | 0.000255 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Carbon tetrachloride | U | | 0.000379 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Chlorobenzene | U | | 0.000245 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Chlorodibromomethane | U | | 0.000430 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Chloroethane | U | J3 | 0.00109 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| Chloroform | U | | 0.000264 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| Chloromethane | U | J0 J3 | 0.000433 | 0.00289 | 1 | 08/25/2017 05:17 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000347 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000277 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000396 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Dibromomethane | U | | 0.000441 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000276 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000261 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Dichlorodifluoromethane | U | J0 J3 J4 | 0.000823 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000306 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000350 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| cis-1,2-Dichloroethene | 0.00950 | | 0.000271 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000305 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000413 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000366 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000239 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000302 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000308 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000898 | 0.00289 | 1 | 08/25/2017 05:17 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000322 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Di-isopropyl ether | U | | 0.000286 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Ethylbenzene | U | | 0.000343 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000395 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |
| n-Hexane | U | J3 | 0.000335 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00292 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00540 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Methylene Chloride | U | | 0.00115 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00217 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000245 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Naphthalene | U | | 0.00115 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| n-Propylbenzene | U | | 0.000238 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Styrene | U | | 0.000270 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000305 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000421 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000421 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Tetrachloroethene | 0.00789 | | 0.000319 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Toluene | U | | 0.000501 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000353 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000448 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000330 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000320 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Trichloroethene | 0.00300 | | 0.000322 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000441 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000855 | 0.00289 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000331 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000307 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Vinyl acetate | U | | 0.00276 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Vinyl chloride | U | J3 J4 | 0.000336 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Xylenes, Total | U | | 0.000806 | 0.00346 | 1 | 08/25/2017 05:17 | WG1013442 |
| *(S) Toluene-d8* | *98.2* | | | *80.0-120* | | *08/25/2017 05:17* | WG1013442 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/25/2017 05:17* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *95.6* | | | *64.0-132* | | *08/25/2017 05:17* | WG1013442 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.8 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.164 | | 0.0369 | 0.109 | 1 | 08/27/2017 03:37 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.5* | | | *77.0-120* | | *08/27/2017 03:37* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0109 | 0.0545 | 1 | 08/25/2017 05:38 | WG1013442 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Bromomethane | U | J3 | 0.00146 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Carbon disulfide | 0.000271 | J J3 | 0.000241 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Carbon tetrachloride | U | | 0.000357 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Chlorodibromomethane | U | | 0.000406 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Chloroethane | U | J3 | 0.00103 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| Chloroform | U | | 0.000250 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| Chloromethane | U | J0 J3 | 0.000409 | 0.00272 | 1 | 08/25/2017 05:38 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Dibromomethane | U | | 0.000416 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Dichlorodifluoromethane | U | J0 J3 J4 | 0.000777 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1-Dichloroethene | 0.000583 | J | 0.000330 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| cis-1,2-Dichloroethene | 3.27 | | 0.0269 | 0.114 | 105 | 08/28/2017 17:46 | WG1013442 |
| trans-1,2-Dichloroethene | 0.00790 | | 0.000288 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000848 | 0.00272 | 1 | 08/25/2017 05:38 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |
| n-Hexane | 0.000325 | J J3 | 0.000316 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000398 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Tetrachloroethene | 0.000912 | J | 0.000301 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Trichloroethene | 0.000376 | J | 0.000304 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000416 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000807 | 0.00272 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Vinyl chloride | 0.00182 | J3 J4 | 0.000317 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Xylenes, Total | U | | 0.000760 | 0.00327 | 1 | 08/25/2017 05:38 | WG1013442 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *08/28/2017 17:46* | WG1013442 |
| *(S) Toluene-d8* | *98.5* | | | *80.0-120* | | *08/25/2017 05:38* | WG1013442 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/25/2017 05:38* | WG1013442 |
| *(S) Dibromofluoromethane* | *99.1* | | | *74.0-131* | | *08/28/2017 17:46* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *95.3* | | | *64.0-132* | | *08/25/2017 05:38* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *97.4* | | | *64.0-132* | | *08/28/2017 17:46* | WG1013442 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.2 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.910 | 2.68 | 25 | 08/27/2017 07:04 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.9* | | | *77.0-120* | | *08/27/2017 07:04* | WG1013897 |

**Sample Narrative:**

L931390-07 WG1013897: Elevated RL. Reported from MEOH vial. Bisulfates used in previous runs.

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.268 | 1.34 | 25 | 08/28/2017 18:12 | WG1013442 |
| Acrylonitrile | U | | 0.0481 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Benzene | U | | 0.00724 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Bromobenzene | U | | 0.00762 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Bromodichloromethane | U | | 0.00682 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Bromochloromethane | U | | 0.0105 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| Bromoform | U | | 0.0114 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Bromomethane | U | J3 | 0.0360 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| n-Butylbenzene | U | | 0.00692 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| sec-Butylbenzene | U | | 0.00539 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| tert-Butylbenzene | U | | 0.00553 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Carbon disulfide | U | J3 | 0.00592 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Carbon tetrachloride | U | | 0.00880 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Chlorobenzene | U | | 0.00569 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Chlorodibromomethane | U | | 0.0100 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Chloroethane | U | J3 | 0.0253 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| Chloroform | U | | 0.00614 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| Chloromethane | U | J3 | 0.0101 | 0.0671 | 25 | 08/28/2017 18:12 | WG1013442 |
| 2-Chlorotoluene | U | | 0.00807 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 4-Chlorotoluene | U | | 0.00644 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0281 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.00921 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Dibromomethane | U | | 0.0102 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.00818 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.00642 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.00606 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Dichlorodifluoromethane | U | J3 J4 | 0.0191 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.00534 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.00710 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.00814 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| cis-1,2-Dichloroethene | U | | 0.00631 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.00708 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.00961 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.00850 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.00556 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.00703 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.00717 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.0208 | 0.0671 | 25 | 08/28/2017 18:12 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.00749 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Di-isopropyl ether | U | | 0.00665 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Ethylbenzene | U | | 0.00796 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | U | | 0.00918 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 2-Hexanone | U | | 0.0367 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| n-Hexane | U | J3 | 0.00778 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Iodomethane | U | | 0.0678 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Isopropylbenzene | U | | 0.00653 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| p-Isopropyltoluene | U | | 0.00547 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.126 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Methylene Chloride | U | | 0.0268 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0504 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Methyl tert-butyl ether | 0.0446 | | 0.00569 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Naphthalene | U | | 0.0268 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| n-Propylbenzene | U | | 0.00553 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Styrene | U | | 0.00628 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00708 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00979 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00979 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Tetrachloroethene | U | | 0.00741 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Toluene | U | | 0.0116 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.00821 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.00767 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.00743 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Trichloroethene | U | | 0.00749 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.0102 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.0199 | 0.0671 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.00567 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.00771 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.00714 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Vinyl acetate | U | | 0.0642 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Vinyl chloride | U | J3 J4 | 0.00781 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Xylenes, Total | U | | 0.0187 | 0.0805 | 25 | 08/28/2017 18:12 | WG1013442 |
| *(S) Toluene-d8* | *93.3* | | | *80.0-120* | | *08/28/2017 18:12* | WG1013442 |
| *(S) Dibromofluoromethane* | *97.5* | | | *74.0-131* | | *08/28/2017 18:12* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *98.4* | | | *64.0-132* | | *08/28/2017 18:12* | WG1013442 |

Sample Narrative:

L931390-07 WG1013442: No stir bars remain for analysis.

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 2880 | | 31.6 | 100 | 1 | 08/27/2017 16:52 | WG1013145 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-122* | | *08/27/2017 16:52* | WG1013145 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 8.66 | J | 1.05 | 25.0 | 1 | 08/25/2017 12:48 | WG1013682 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| Benzene | 1.65 | | 0.0896 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Chloromethane | 0.554 | J | 0.153 | 1.25 | 1 | 08/25/2017 12:48 | WG1013682 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1-Dichloroethene | 0.249 | J | 0.188 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| cis-1,2-Dichloroethene | 4.86 | | 0.0933 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| trans-1,2-Dichloroethene | 0.168 | J | 0.152 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Ethylbenzene | 0.557 | | 0.158 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| 2-Hexanone | 5.14 | | 0.757 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| n-Hexane | 3.68 | J | 0.305 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 08/25/2017 12:48 | WG1013682 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 2-Butanone (MEK) | 25.2 | J0 | 1.28 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Naphthalene | 0.262 | B J | 0.174 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Styrene | 0.168 | J | 0.117 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Tetrachloroethene | 19.8 | | 0.199 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Toluene | 297 | | 20.6 | 25.0 | 50 | 08/30/2017 02:27 | WG1013682 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Trichloroethene | 8.34 | | 0.153 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2,4-Trimethylbenzene | 0.376 | B J | 0.123 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| Vinyl chloride | 0.160 | J | 0.118 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Xylenes, Total | 1.67 | | 0.316 | 1.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/30/2017 02:27* | WG1013682 |
| *(S) Toluene-d8* | *119* | | | *80.0-120* | | *08/25/2017 12:48* | WG1013682 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *08/30/2017 02:27* | WG1013682 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *08/25/2017 12:48* | WG1013682 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *08/25/2017 12:48* | WG1013682 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *08/30/2017 02:27* | WG1013682 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 1.93 | J | 1.05 | 25.0 | 1 | 08/25/2017 12:08 | WG1013682 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| Benzene | 0.155 | J | 0.0896 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 08/25/2017 12:08 | WG1013682 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 08/25/2017 12:08 | WG1013682 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Naphthalene | 0.479 | B J | 0.174 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Styrene | U | | 0.117 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Toluene | U | | 0.412 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2,4-Trimethylbenzene | 0.161 | B J | 0.123 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *08/25/2017 12:08* | WG1013682 |
| *(S) Dibromofluoromethane* | *104* | | | *76.0-123* | | *08/25/2017 12:08* | WG1013682 |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *80.0-120* | | *08/25/2017 12:08* | WG1013682 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.7 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0366 | 0.108 | 1 | 08/27/2017 04:04 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* | | *08/27/2017 04:04* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0108 | 0.0539 | 1 | 08/25/2017 06:19 | WG1013442 |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Benzene | U | | 0.000291 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Bromobenzene | U | | 0.000306 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Bromodichloromethane | U | | 0.000274 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Bromochloromethane | U | | 0.000421 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| Bromoform | U | | 0.000457 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Bromomethane | U | | 0.00145 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| n-Butylbenzene | U | | 0.000278 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| sec-Butylbenzene | U | | 0.000217 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| tert-Butylbenzene | U | | 0.000222 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Carbon disulfide | 0.000803 | J | 0.000238 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Carbon tetrachloride | U | | 0.000354 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Chlorobenzene | U | | 0.000229 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Chlorodibromomethane | U | | 0.000402 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Chloroethane | U | | 0.00102 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| Chloroform | U | | 0.000247 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| Chloromethane | U | J0 | 0.000405 | 0.00270 | 1 | 08/25/2017 06:19 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000325 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000259 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000370 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Dibromomethane | U | | 0.000412 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000329 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000258 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000244 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Dichlorodifluoromethane | U | J0 J4 | 0.000769 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000215 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000286 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000327 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| cis-1,2-Dichloroethene | 0.0115 | | 0.000254 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000285 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000386 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000342 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000223 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000283 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000288 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000839 | 0.00270 | 1 | 08/25/2017 06:19 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000301 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Di-isopropyl ether | U | | 0.000268 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Ethylbenzene | U | | 0.000320 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000369 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |
| n-Hexane | 0.00741 | J | 0.000313 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00273 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Isopropylbenzene | U | | 0.000262 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000220 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00505 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Methylene Chloride | U | | 0.00108 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00203 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000229 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Naphthalene | U | | 0.00108 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| n-Propylbenzene | U | | 0.000222 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Styrene | U | | 0.000252 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000285 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000394 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000394 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Tetrachloroethene | U | | 0.000298 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Toluene | U | | 0.000468 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000419 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000309 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000299 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Trichloroethene | U | | 0.000301 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Trichlorofluoromethane | U | | 0.000412 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000799 | 0.00270 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000228 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000310 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000287 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Vinyl acetate | U | | 0.00258 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Vinyl chloride | U | J4 | 0.000314 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Xylenes, Total | U | | 0.000753 | 0.00324 | 1 | 08/25/2017 06:19 | WG1013442 |
| *(S) Toluene-d8* | *97.6* | | | *80.0-120* | | *08/25/2017 06:19* | WG1013442 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/25/2017 06:19* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *94.8* | | | *64.0-132* | | *08/25/2017 06:19* | WG1013442 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.5 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0374 | 0.110 | 1 | 08/27/2017 04:52 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.2* | | | *77.0-120* | | *08/27/2017 04:52* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0110 | 0.0552 | 1 | 08/25/2017 06:40 | WG1013442 |
| Acrylonitrile | U | | 0.00198 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Benzene | U | | 0.000298 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Bromobenzene | U | | 0.000314 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Bromodichloromethane | U | | 0.000281 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Bromochloromethane | U | | 0.000431 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| Bromoform | U | | 0.000468 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Bromomethane | U | J3 | 0.00148 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| n-Butylbenzene | U | | 0.000285 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| sec-Butylbenzene | U | | 0.000222 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| tert-Butylbenzene | U | | 0.000228 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Carbon disulfide | U | J3 | 0.000244 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Carbon tetrachloride | U | | 0.000362 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Chlorodibromomethane | U | | 0.000412 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Chloroethane | U | J3 | 0.00104 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| Chloroform | U | | 0.000253 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| Chloromethane | U | J0 J3 | 0.000414 | 0.00276 | 1 | 08/25/2017 06:40 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000265 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000379 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Dibromomethane | U | | 0.000422 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000264 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000250 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Dichlorodifluoromethane | U | J0 J3 J4 | 0.000787 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000220 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000293 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000335 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| cis-1,2-Dichloroethene | 0.000500 | J | 0.000260 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000292 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000395 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000350 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000229 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000295 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000859 | 0.00276 | 1 | 08/25/2017 06:40 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000308 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Di-isopropyl ether | U | | 0.000274 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Ethylbenzene | U | | 0.000328 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000378 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |
| n-Hexane | U | J3 | 0.000320 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00517 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Methylene Chloride | U | | 0.00110 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00208 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000234 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Naphthalene | U | | 0.00110 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| n-Propylbenzene | U | | 0.000228 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000292 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000403 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000403 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Tetrachloroethene | U | | 0.000305 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Toluene | U | | 0.000479 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000338 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000429 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000316 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000306 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Trichloroethene | U | | 0.000308 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000422 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000818 | 0.00276 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000233 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000317 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000294 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Vinyl acetate | U | | 0.00264 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Vinyl chloride | 0.000485 | J J3 J4 | 0.000321 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Xylenes, Total | U | | 0.000771 | 0.00331 | 1 | 08/25/2017 06:40 | WG1013442 |
| *(S) Toluene-d8* | *97.2* | | | *80.0-120* | | *08/25/2017 06:40* | WG1013442 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/25/2017 06:40* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *98.3* | | | *64.0-132* | | *08/25/2017 06:40* | WG1013442 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.2 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0403 | 0.119 | 1 | 08/27/2017 05:14 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.4* | | | *77.0-120* | | *08/27/2017 05:14* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0119 | 0.0594 | 1 | 08/25/2017 07:01 | WG1013442 |
| Acrylonitrile | U | | 0.00213 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Benzene | U | | 0.000321 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Bromobenzene | U | | 0.000337 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Bromodichloromethane | U | | 0.000302 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Bromochloromethane | U | | 0.000463 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| Bromoform | U | | 0.000504 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Bromomethane | U | J3 | 0.00159 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| n-Butylbenzene | U | | 0.000306 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| sec-Butylbenzene | U | | 0.000239 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| tert-Butylbenzene | U | | 0.000245 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Carbon disulfide | U | J3 | 0.000262 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Carbon tetrachloride | U | | 0.000390 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Chlorobenzene | U | | 0.000252 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Chlorodibromomethane | U | | 0.000443 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Chloroethane | U | J3 | 0.00112 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| Chloroform | U | | 0.000272 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| Chloromethane | U | J0 J3 | 0.000445 | 0.00297 | 1 | 08/25/2017 07:01 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000357 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000285 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000407 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Dibromomethane | U | | 0.000454 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000362 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000284 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000268 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Dichlorodifluoromethane | U | J0 J3 J4 | 0.000847 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000236 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000315 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000360 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| cis-1,2-Dichloroethene | 0.000837 | J | 0.000279 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000314 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000425 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000376 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000246 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000311 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000317 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000924 | 0.00297 | 1 | 08/25/2017 07:01 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000331 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Di-isopropyl ether | U | | 0.000295 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Ethylbenzene | U | | 0.000353 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000406 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 2-Hexanone | U | | 0.00163 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |
| n-Hexane | U | J3 | 0.000344 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00300 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Isopropylbenzene | U | | 0.000289 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000242 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00556 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Methylene Chloride | U | | 0.00119 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00223 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000252 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Naphthalene | U | | 0.00119 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| n-Propylbenzene | U | | 0.000245 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Styrene | U | | 0.000278 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000314 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000433 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000433 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Tetrachloroethene | U | | 0.000328 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Toluene | U | | 0.000515 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000363 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000461 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000340 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000329 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Trichloroethene | U | | 0.000331 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000454 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000880 | 0.00297 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000251 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000341 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000316 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Vinyl acetate | U | | 0.00284 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Vinyl chloride | U | J3 J4 | 0.000346 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Xylenes, Total | U | | 0.000829 | 0.00356 | 1 | 08/25/2017 07:01 | WG1013442 |
| *(S) Toluene-d8* | *98.2* | | | *80.0-120* | | *08/25/2017 07:01* | WG1013442 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *08/25/2017 07:01* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *97.4* | | | *64.0-132* | | *08/25/2017 07:01* | WG1013442 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.7 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0378 | 0.112 | 1 | 08/27/2017 05:36 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.3* | | | *77.0-120* | | *08/27/2017 05:36* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0112 | 0.0558 | 1 | 08/25/2017 07:21 | WG1013442 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Benzene | U | | 0.000301 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Bromodichloromethane | U | | 0.000283 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Bromochloromethane | U | | 0.000435 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| Bromoform | U | | 0.000473 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Bromomethane | U | J3 | 0.00149 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| sec-Butylbenzene | U | | 0.000224 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Carbon disulfide | U | J3 | 0.000246 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Carbon tetrachloride | U | | 0.000366 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Chlorobenzene | U | | 0.000236 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Chlorodibromomethane | U | | 0.000416 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Chloroethane | U | J3 | 0.00105 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| Chloroform | U | | 0.000255 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| Chloromethane | U | J0 J3 | 0.000418 | 0.00279 | 1 | 08/25/2017 07:21 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000382 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Dibromomethane | U | | 0.000426 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000340 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000266 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Dichlorodifluoromethane | U | J0 J3 J4 | 0.000795 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000295 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000338 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| cis-1,2-Dichloroethene | 0.0108 | | 0.000262 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| trans-1,2-Dichloroethene | 0.000443 | J | 0.000294 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000399 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000353 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000292 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000868 | 0.00279 | 1 | 08/25/2017 07:21 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000311 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Ethylbenzene | U | | 0.000331 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000381 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |
| n-Hexane | U | J3 | 0.000323 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00282 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Isopropylbenzene | U | | 0.000271 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000227 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00522 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Methylene Chloride | U | | 0.00112 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000236 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Naphthalene | U | | 0.00112 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Styrene | U | | 0.000261 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000294 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000407 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000407 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Tetrachloroethene | 0.000312 | J | 0.000308 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Toluene | U | | 0.000484 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000433 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Trichloroethene | 0.000380 | J | 0.000311 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000426 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000826 | 0.00279 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000235 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Vinyl acetate | U | | 0.00266 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Vinyl chloride | 0.00217 | J3 J4 | 0.000324 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Xylenes, Total | U | | 0.000778 | 0.00335 | 1 | 08/25/2017 07:21 | WG1013442 |
| *(S) Toluene-d8* | *98.2* | | | *80.0-120* | | *08/25/2017 07:21* | WG1013442 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/25/2017 07:21* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *94.5* | | | *64.0-132* | | *08/25/2017 07:21* | WG1013442 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.4 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0379 | 0.112 | 1 | 08/27/2017 05:58 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.4* | | | *77.0-120* | | *08/27/2017 05:58* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0112 | 0.0559 | 1 | 08/25/2017 07:42 | WG1013442 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Benzene | U | | 0.000302 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Bromobenzene | U | | 0.000318 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Bromochloromethane | U | | 0.000436 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| Bromoform | U | | 0.000474 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Bromomethane | U | J3 | 0.00150 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| n-Butylbenzene | U | | 0.000289 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| sec-Butylbenzene | U | | 0.000225 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Carbon disulfide | 0.00118 | J3 | 0.000247 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Carbon tetrachloride | U | | 0.000367 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Chlorodibromomethane | U | | 0.000417 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Chloroethane | U | J3 | 0.00106 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| Chloroform | U | | 0.000256 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| Chloromethane | U | J0 J3 | 0.000420 | 0.00280 | 1 | 08/25/2017 07:42 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000337 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000269 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000384 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Dibromomethane | U | | 0.000427 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000253 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Dichlorodifluoromethane | U | J0 J3 J4 | 0.000798 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000223 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000297 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000339 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| cis-1,2-Dichloroethene | 0.00506 | | 0.000263 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000295 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000401 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000355 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000232 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000293 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000299 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000871 | 0.00280 | 1 | 08/25/2017 07:42 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000312 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000383 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |
| n-Hexane | U | J3 | 0.000324 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Isopropylbenzene | U | | 0.000272 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00524 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Methylene Chloride | U | | 0.00112 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Naphthalene | U | | 0.00112 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Styrene | U | | 0.000262 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000408 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000408 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Tetrachloroethene | 0.00166 | | 0.000309 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Toluene | U | | 0.000486 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000434 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000320 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000310 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Trichloroethene | U | | 0.000312 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000427 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000829 | 0.00280 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000321 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000298 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Vinyl chloride | 0.00377 | J3 J4 | 0.000326 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Xylenes, Total | U | | 0.000781 | 0.00336 | 1 | 08/25/2017 07:42 | WG1013442 |
| *(S) Toluene-d8* | *95.4* | | | *80.0-120* | | *08/25/2017 07:42* | WG1013442 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/25/2017 07:42* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *94.4* | | | *64.0-132* | | *08/25/2017 07:42* | WG1013442 |

## Method Blank (MB)

(MB) R3245132-1 08/28/17 12:37

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000500 | | | |

## L931390-04 Original Sample (OS) • Duplicate (DUP)

(OS) L931390-04 08/28/17 12:37 • (DUP) R3245132-3 08/28/17 12:37

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 89.8 | 89.8 | 1 | 0.00740 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3245132-2 08/28/17 12:37

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3245144-1 08/28/17 16:45

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.000600 | | | |

## L931390-05 Original Sample (OS) • Duplicate (DUP)

(OS) L931390-05 08/28/17 16:45 • (DUP) R3245144-3 08/28/17 16:45

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 86.6 | 81.6 | 1 | 6.01 | J3 | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3245144-2 08/28/17 16:45

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 49.7 | 99.3 | 85.0-115 | |

## Method Blank (MB)

(MB) R3245287-3 08/27/17 12:15

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.6* | | | *77.0-122* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3245287-1 08/27/17 11:08 • (LCSD) R3245287-2 08/27/17 11:30

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 5960 | 5580 | 108 | 101 | 72.0-134 | | | 6.58 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *108* | *106* | *77.0-122* | | | | |

## L931153-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L931153-01 08/27/17 13:54 • (MS) R3245287-4 08/27/17 12:47 • (MSD) R3245287-5 08/27/17 13:09

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 255 | 5740 | 5790 | 99.8 | 101 | 1 | 23.0-159 | | | 0.870 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *104* | *103* | | *77.0-122* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3245309-3 08/26/17 22:39

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.3* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3245309-1 08/26/17 21:32 • (LCSD) R3245309-2 08/26/17 21:55

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | 5.92 | 5.97 | 108 | 108 | 70.0-133 | | | 0.840 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *106* | *105* | *77.0-120* | | | | |

## L931390-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L931390-07 08/27/17 07:04 • (MS) R3245309-4 08/27/17 07:27 • (MSD) R3245309-5 08/27/17 07:49

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.90 | U | 69.8 | 71.0 | 47.3 | 48.1 | 25 | 10.0-146 | | | 1.70 | 30 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *100* | *101* | | *77.0-120* | | | | |

**Sample Narrative:**

OS: Elevated RL. Reported from MEOH vial. Bisulfates used in previous runs.

## Method Blank (MB)

(MB) R3244456-2 08/24/17 23:31

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3244456-2 08/24/17 23:31

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *96.7* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *95.5* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3244456-1 08/24/17 22:49 • (LCSD) R3244456-3 08/25/17 00:33

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.117 | 0.141 | 93.3 | 113 | 11.0-160 | | | 19.2 | 23 |
| Acrylonitrile | 0.125 | 0.132 | 0.135 | 106 | 108 | 61.0-143 | | | 1.58 | 20 |
| Benzene | 0.0250 | 0.0238 | 0.0258 | 95.1 | 103 | 71.0-124 | | | 8.02 | 20 |
| Bromobenzene | 0.0250 | 0.0239 | 0.0249 | 95.5 | 99.4 | 78.0-120 | | | 4.05 | 20 |
| Bromodichloromethane | 0.0250 | 0.0243 | 0.0247 | 97.1 | 98.9 | 75.0-120 | | | 1.86 | 20 |
| Bromochloromethane | 0.0250 | 0.0252 | 0.0259 | 101 | 103 | 80.0-121 | | | 2.60 | 20 |
| Bromoform | 0.0250 | 0.0249 | 0.0251 | 99.6 | 100 | 65.0-133 | | | 0.680 | 20 |
| Bromomethane | 0.0250 | 0.0223 | 0.0314 | 89.1 | 126 | 26.0-160 | | J3 | 34.0 | 20 |
| n-Butylbenzene | 0.0250 | 0.0246 | 0.0267 | 98.5 | 107 | 73.0-126 | | | 8.05 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0245 | 0.0258 | 97.8 | 103 | 75.0-121 | | | 5.45 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0248 | 0.0253 | 99.1 | 101 | 74.0-122 | | | 2.10 | 20 |
| Carbon disulfide | 0.0250 | 0.0206 | 0.0285 | 82.2 | 114 | 53.0-130 | | J3 | 32.4 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0236 | 0.0248 | 94.3 | 99.4 | 66.0-123 | | | 5.18 | 20 |
| Chlorobenzene | 0.0250 | 0.0255 | 0.0269 | 102 | 108 | 79.0-121 | | | 5.41 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0249 | 0.0254 | 99.4 | 102 | 74.0-128 | | | 2.13 | 20 |
| Chloroethane | 0.0250 | 0.0225 | 0.0303 | 89.8 | 121 | 51.0-147 | | J3 | 29.8 | 20 |
| Chloroform | 0.0250 | 0.0240 | 0.0252 | 96.2 | 101 | 73.0-123 | | | 4.61 | 20 |
| Chloromethane | 0.0250 | 0.0153 | 0.0282 | 61.3 | 113 | 51.0-138 | | J3 | 59.1 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0245 | 0.0256 | 97.9 | 102 | 72.0-124 | | | 4.51 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0234 | 0.0251 | 93.8 | 100 | 78.0-120 | | | 6.77 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0250 | 0.0255 | 100 | 102 | 65.0-126 | | | 1.83 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0251 | 0.0263 | 100 | 105 | 78.0-122 | | | 4.55 | 20 |
| Dibromomethane | 0.0250 | 0.0248 | 0.0255 | 99.3 | 102 | 79.0-120 | | | 2.81 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0261 | 0.0269 | 105 | 108 | 80.0-120 | | | 2.93 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0260 | 0.0270 | 104 | 108 | 72.0-123 | | | 3.85 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0245 | 0.0262 | 97.9 | 105 | 77.0-120 | | | 6.77 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0269 | 0.0278 | 108 | 111 | 68.0-126 | | | 3.18 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0104 | 0.0315 | 41.6 | 126 | 49.0-155 | J4 | J3 | 101 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0241 | 0.0265 | 96.3 | 106 | 70.0-128 | | | 9.57 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0254 | 0.0261 | 102 | 105 | 69.0-128 | | | 2.81 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0227 | 0.0266 | 90.7 | 106 | 63.0-131 | | | 15.9 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0227 | 0.0242 | 90.6 | 96.8 | 74.0-123 | | | 6.59 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0226 | 0.0247 | 90.5 | 98.9 | 72.0-122 | | | 8.89 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0252 | 0.0260 | 101 | 104 | 75.0-126 | | | 2.95 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0233 | 0.0255 | 93.1 | 102 | 72.0-130 | | | 9.07 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0264 | 0.0277 | 106 | 111 | 80.0-121 | | | 4.84 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0251 | 0.0265 | 100 | 106 | 80.0-125 | | | 5.55 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0269 | 0.0278 | 107 | 111 | 75.0-129 | | | 3.51 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0233 | 0.0253 | 93.2 | 101 | 60.0-129 | | | 8.09 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0244 | 0.0249 | 97.8 | 99.6 | 62.0-133 | | | 1.80 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3244456-1 08/24/17 22:49 • (LCSD) R3244456-3 08/25/17 00:33

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0243 | 0.0254 | 97.0 | 102 | 77.0-120 | | | 4.75 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0249 | 0.0269 | 99.4 | 108 | 68.0-128 | | | 7.96 | 20 |
| 2-Hexanone | 0.125 | 0.132 | 0.150 | 105 | 120 | 61.0-143 | | | 12.8 | 20 |
| n-Hexane | 0.0250 | 0.0196 | 0.0242 | 78.6 | 96.6 | 57.0-125 | | J3 | 20.6 | 20 |
| Iodomethane | 0.125 | 0.126 | 0.147 | 101 | 118 | 67.0-132 | | | 15.9 | 20 |
| Isopropylbenzene | 0.0250 | 0.0235 | 0.0245 | 94.2 | 98.1 | 75.0-120 | | | 4.10 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0244 | 0.0258 | 97.7 | 103 | 74.0-125 | | | 5.38 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.128 | 0.147 | 103 | 117 | 37.0-159 | | | 13.4 | 20 |
| Methylene Chloride | 0.0250 | 0.0228 | 0.0256 | 91.2 | 102 | 67.0-123 | | | 11.6 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.131 | 0.138 | 105 | 110 | 60.0-144 | | | 4.93 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0251 | 0.0252 | 100 | 101 | 66.0-125 | | | 0.380 | 20 |
| Naphthalene | 0.0250 | 0.0253 | 0.0249 | 101 | 99.6 | 64.0-125 | | | 1.52 | 20 |
| n-Propylbenzene | 0.0250 | 0.0235 | 0.0254 | 94.1 | 101 | 78.0-120 | | | 7.52 | 20 |
| Styrene | 0.0250 | 0.0235 | 0.0247 | 94.1 | 98.6 | 78.0-124 | | | 4.71 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0243 | 0.0253 | 97.1 | 101 | 74.0-124 | | | 4.14 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0245 | 0.0249 | 98.1 | 99.7 | 73.0-120 | | | 1.61 | 20 |
| Tetrachloroethene | 0.0250 | 0.0244 | 0.0270 | 97.8 | 108 | 70.0-127 | | | 10.1 | 20 |
| Toluene | 0.0250 | 0.0231 | 0.0248 | 92.3 | 99.4 | 77.0-120 | | | 7.37 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0250 | 0.0289 | 100 | 116 | 64.0-135 | | | 14.3 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0271 | 0.0277 | 109 | 111 | 68.0-126 | | | 2.13 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0264 | 0.0278 | 106 | 111 | 70.0-127 | | | 5.28 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0226 | 0.0237 | 90.3 | 94.7 | 69.0-125 | | | 4.72 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0247 | 0.0251 | 98.9 | 100 | 78.0-120 | | | 1.42 | 20 |
| Trichloroethene | 0.0250 | 0.0246 | 0.0262 | 98.3 | 105 | 79.0-120 | | | 6.49 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0270 | 0.0339 | 108 | 136 | 59.0-136 | | J3 | 22.8 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0242 | 0.0253 | 96.6 | 101 | 73.0-124 | | | 4.45 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0239 | 0.0249 | 95.7 | 99.4 | 76.0-120 | | | 3.85 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0221 | 0.0236 | 88.5 | 94.2 | 75.0-120 | | | 6.26 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0236 | 0.0250 | 94.5 | 99.9 | 75.0-120 | | | 5.59 | 20 |
| Vinyl acetate | 0.125 | 0.120 | 0.141 | 95.7 | 113 | 58.0-156 | | | 16.3 | 20 |
| Vinyl chloride | 0.0250 | 0.0208 | 0.0341 | 83.1 | 136 | 63.0-134 | | J3 J4 | 48.5 | 20 |
| Xylenes, Total | 0.0750 | 0.0700 | 0.0743 | 93.3 | 99.1 | 77.0-120 | | | 5.96 | 20 |
| *(S) Toluene-d8* | | | | *102* | *104* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *96.8* | *96.5* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *91.5* | *93.3* | *64.0-132* | | | | |

## L931390-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L931390-10 08/25/17 06:19 • (MS) R3244456-4 08/25/17 08:02 • (MSD) R3244456-5 08/25/17 08:23

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.135 | U | 0.0827 | 0.0911 | 61.3 | 67.5 | 1 | 10.0-160 | | | 9.63 | 36 |
| Acrylonitrile | 0.135 | U | 0.150 | 0.166 | 111 | 123 | 1 | 14.0-160 | | | 10.0 | 33 |
| Benzene | 0.0270 | U | 0.0211 | 0.0245 | 78.3 | 90.7 | 1 | 13.0-146 | | | 14.6 | 27 |
| Bromobenzene | 0.0270 | U | 0.0161 | 0.0191 | 59.5 | 70.7 | 1 | 10.0-149 | | | 17.2 | 33 |
| Bromodichloromethane | 0.0270 | U | 0.0207 | 0.0235 | 76.7 | 87.1 | 1 | 15.0-142 | | | 12.7 | 28 |
| Bromochloromethane | 0.0270 | U | 0.0228 | 0.0247 | 84.5 | 91.6 | 1 | 24.0-146 | | | 8.01 | 27 |
| Bromoform | 0.0270 | U | 0.0215 | 0.0257 | 79.8 | 95.4 | 1 | 10.0-147 | | | 17.8 | 31 |
| Bromomethane | 0.0270 | U | 0.0255 | 0.0288 | 94.6 | 107 | 1 | 10.0-160 | | | 12.3 | 32 |
| n-Butylbenzene | 0.0270 | U | 0.0134 | 0.0140 | 49.5 | 51.9 | 1 | 10.0-154 | | | 4.76 | 37 |
| sec-Butylbenzene | 0.0270 | U | 0.0149 | 0.0159 | 55.2 | 59.0 | 1 | 10.0-151 | | | 6.63 | 36 |
| tert-Butylbenzene | 0.0270 | U | 0.0159 | 0.0176 | 59.1 | 65.2 | 1 | 10.0-152 | | | 9.81 | 35 |
| Carbon disulfide | 0.0270 | 0.000803 | 0.0225 | 0.0247 | 80.5 | 88.5 | 1 | 10.0-141 | | | 9.17 | 30 |
| Carbon tetrachloride | 0.0270 | U | 0.0204 | 0.0212 | 75.8 | 78.7 | 1 | 13.0-140 | | | 3.75 | 30 |
| Chlorobenzene | 0.0270 | U | 0.0178 | 0.0201 | 66.1 | 74.4 | 1 | 10.0-149 | | | 11.8 | 31 |
| Chlorodibromomethane | 0.0270 | U | 0.0204 | 0.0226 | 75.6 | 83.9 | 1 | 12.0-147 | | | 10.5 | 29 |
| Chloroethane | 0.0270 | U | 0.0249 | 0.0278 | 92.3 | 103 | 1 | 10.0-159 | | | 11.1 | 33 |
| Chloroform | 0.0270 | U | 0.0213 | 0.0230 | 79.1 | 85.5 | 1 | 18.0-148 | | | 7.75 | 28 |
| Chloromethane | 0.0270 | U | 0.0244 | 0.0282 | 90.5 | 104 | 1 | 10.0-146 | | | 14.4 | 29 |
| 2-Chlorotoluene | 0.0270 | U | 0.0158 | 0.0185 | 58.7 | 68.6 | 1 | 10.0-151 | | | 15.5 | 35 |
| 4-Chlorotoluene | 0.0270 | U | 0.0146 | 0.0167 | 54.3 | 61.9 | 1 | 10.0-150 | | | 13.1 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0270 | U | 0.0263 | 0.0283 | 97.4 | 105 | 1 | 10.0-149 | | | 7.58 | 34 |
| 1,2-Dibromoethane | 0.0270 | U | 0.0222 | 0.0247 | 82.2 | 91.6 | 1 | 14.0-145 | | | 10.8 | 28 |
| Dibromomethane | 0.0270 | U | 0.0232 | 0.0251 | 86.2 | 93.1 | 1 | 18.0-144 | | | 7.70 | 27 |
| 1,2-Dichlorobenzene | 0.0270 | U | 0.0158 | 0.0173 | 58.6 | 64.1 | 1 | 10.0-153 | | | 8.98 | 34 |
| 1,3-Dichlorobenzene | 0.0270 | U | 0.0146 | 0.0165 | 54.1 | 61.1 | 1 | 10.0-150 | | | 12.1 | 35 |
| 1,4-Dichlorobenzene | 0.0270 | U | 0.0138 | 0.0156 | 51.2 | 57.8 | 1 | 10.0-148 | | | 12.2 | 34 |
| trans-1,4-Dichloro-2-butene | 0.0270 | U | 0.0246 | 0.0298 | 91.3 | 110 | 1 | 10.0-160 | | | 19.0 | 40 |
| Dichlorodifluoromethane | 0.0270 | U | 0.0271 | 0.0297 | 101 | 110 | 1 | 10.0-160 | | | 9.12 | 30 |
| 1,1-Dichloroethane | 0.0270 | U | 0.0225 | 0.0249 | 83.3 | 92.4 | 1 | 19.0-148 | | | 10.4 | 28 |
| 1,2-Dichloroethane | 0.0270 | U | 0.0236 | 0.0278 | 87.6 | 103 | 1 | 17.0-147 | | | 16.3 | 27 |
| 1,1-Dichloroethene | 0.0270 | U | 0.0212 | 0.0227 | 78.4 | 84.3 | 1 | 10.0-150 | | | 7.16 | 31 |
| cis-1,2-Dichloroethene | 0.0270 | 0.0115 | 0.0259 | 0.0287 | 53.6 | 63.9 | 1 | 16.0-145 | | | 10.2 | 28 |
| trans-1,2-Dichloroethene | 0.0270 | U | 0.0190 | 0.0210 | 70.5 | 78.0 | 1 | 11.0-142 | | | 10.0 | 29 |
| 1,2-Dichloropropane | 0.0270 | U | 0.0225 | 0.0256 | 83.4 | 94.8 | 1 | 17.0-148 | | | 12.8 | 28 |
| 1,1-Dichloropropene | 0.0270 | U | 0.0199 | 0.0225 | 73.6 | 83.4 | 1 | 10.0-150 | | | 12.4 | 30 |
| 1,3-Dichloropropane | 0.0270 | U | 0.0231 | 0.0267 | 85.7 | 99.0 | 1 | 16.0-148 | | | 14.4 | 27 |
| cis-1,3-Dichloropropene | 0.0270 | U | 0.0189 | 0.0216 | 70.1 | 80.1 | 1 | 13.0-150 | | | 13.2 | 28 |
| trans-1,3-Dichloropropene | 0.0270 | U | 0.0204 | 0.0234 | 75.5 | 86.9 | 1 | 10.0-152 | | | 14.0 | 29 |
| 2,2-Dichloropropane | 0.0270 | U | 0.0200 | 0.0228 | 74.3 | 84.7 | 1 | 16.0-143 | | | 13.1 | 30 |

## L931390-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L931390-10 08/25/17 06:19 • (MS) R3244456-4 08/25/17 08:02 • (MSD) R3244456-5 08/25/17 08:23

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Di-isopropyl ether | 0.0270 | U | 0.0220 | 0.0249 | 81.5 | 92.5 | 1 | 16.0-149 | | | 12.6 | 28 |
| Ethylbenzene | 0.0270 | U | 0.0171 | 0.0188 | 63.5 | 69.5 | 1 | 10.0-147 | | | 9.08 | 31 |
| Hexachloro-1,3-butadiene | 0.0270 | U | 0.0128 | 0.0120 | 47.4 | 44.5 | 1 | 10.0-154 | | | 6.41 | 40 |
| 2-Hexanone | 0.135 | U | 0.139 | 0.151 | 103 | 112 | 1 | 12.0-158 | | | 8.36 | 30 |
| n-Hexane | 0.0270 | 0.00741 | 0.0172 | 0.0208 | 36.4 | 49.5 | 1 | 10.0-140 | | | 18.7 | 34 |
| Iodomethane | 0.135 | U | 0.119 | 0.131 | 88.6 | 97.4 | 1 | 10.0-157 | | | 9.50 | 34 |
| Isopropylbenzene | 0.0270 | U | 0.0163 | 0.0185 | 60.4 | 68.5 | 1 | 10.0-147 | | | 12.6 | 33 |
| p-Isopropyltoluene | 0.0270 | U | 0.0147 | 0.0157 | 54.4 | 58.0 | 1 | 10.0-156 | | | 6.51 | 37 |
| 2-Butanone (MEK) | 0.135 | U | 0.136 | 0.153 | 101 | 113 | 1 | 10.0-160 | | | 11.8 | 33 |
| Methylene Chloride | 0.0270 | U | 0.0209 | 0.0227 | 77.5 | 84.1 | 1 | 16.0-139 | | | 8.15 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.135 | U | 0.161 | 0.178 | 120 | 132 | 1 | 12.0-160 | | | 9.82 | 32 |
| Methyl tert-butyl ether | 0.0270 | U | 0.0246 | 0.0271 | 91.1 | 100 | 1 | 21.0-145 | | | 9.76 | 29 |
| Naphthalene | 0.0270 | U | 0.0151 | 0.0178 | 56.0 | 66.1 | 1 | 10.0-153 | | | 16.5 | 36 |
| n-Propylbenzene | 0.0270 | U | 0.0153 | 0.0176 | 56.7 | 65.4 | 1 | 10.0-151 | | | 14.3 | 34 |
| Styrene | 0.0270 | U | 0.0143 | 0.0169 | 53.1 | 62.7 | 1 | 10.0-155 | | | 16.6 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0270 | U | 0.0183 | 0.0201 | 67.8 | 74.5 | 1 | 10.0-147 | | | 9.53 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0270 | U | 0.0245 | 0.0285 | 90.8 | 106 | 1 | 10.0-155 | | | 15.3 | 31 |
| Tetrachloroethene | 0.0270 | U | 0.0186 | 0.0202 | 68.9 | 74.8 | 1 | 10.0-144 | | | 8.09 | 32 |
| Toluene | 0.0270 | U | 0.0177 | 0.0201 | 65.7 | 74.4 | 1 | 10.0-144 | | | 12.4 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0270 | U | 0.0229 | 0.0242 | 85.0 | 89.6 | 1 | 10.0-153 | | | 5.22 | 33 |
| 1,2,3-Trichlorobenzene | 0.0270 | U | 0.0120 | 0.0129 | 44.5 | 47.9 | 1 | 10.0-153 | | | 7.34 | 40 |
| 1,2,4-Trichlorobenzene | 0.0270 | U | 0.0109 | 0.0119 | 40.5 | 44.3 | 1 | 10.0-156 | | | 8.93 | 40 |
| 1,1,1-Trichloroethane | 0.0270 | U | 0.0196 | 0.0221 | 72.7 | 81.9 | 1 | 18.0-145 | | | 12.0 | 29 |
| 1,1,2-Trichloroethane | 0.0270 | U | 0.0222 | 0.0243 | 82.1 | 90.1 | 1 | 12.0-151 | | | 9.24 | 28 |
| Trichloroethene | 0.0270 | U | 0.0195 | 0.0220 | 72.4 | 81.7 | 1 | 11.0-148 | | | 12.0 | 29 |
| Trichlorofluoromethane | 0.0270 | U | 0.0269 | 0.0304 | 99.7 | 113 | 1 | 10.0-157 | | | 12.4 | 34 |
| 1,2,3-Trichloropropane | 0.0270 | U | 0.0251 | 0.0286 | 92.9 | 106 | 1 | 10.0-154 | | | 13.4 | 32 |
| 1,2,3-Trimethylbenzene | 0.0270 | U | 0.0157 | 0.0176 | 58.3 | 65.4 | 1 | 10.0-150 | | | 11.5 | 33 |
| 1,2,4-Trimethylbenzene | 0.0270 | U | 0.0141 | 0.0158 | 52.1 | 58.6 | 1 | 10.0-151 | | | 11.7 | 34 |
| 1,3,5-Trimethylbenzene | 0.0270 | U | 0.0151 | 0.0167 | 55.9 | 62.0 | 1 | 10.0-150 | | | 10.4 | 33 |
| Vinyl acetate | 0.135 | U | 0.0868 | 0.0993 | 64.4 | 73.6 | 1 | 10.0-160 | | | 13.4 | 40 |
| Vinyl chloride | 0.0270 | U | 0.0286 | 0.0322 | 106 | 119 | 1 | 10.0-150 | | | 11.8 | 29 |
| Xylenes, Total | 0.0809 | U | 0.0487 | 0.0539 | 60.1 | 66.7 | 1 | 10.0-150 | | | 10.3 | 31 |
| *(S) Toluene-d8* | | | | | *96.5* | *97.0* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *102* | *100* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *92.0* | *97.1* | | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3245340-3 08/25/17 10:55

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3245340-3 08/25/17 10:55

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | 0.719 | J | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | 0.170 | J | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *106* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *99.6* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3245340-1 08/25/17 09:37 • (LCSD) R3245340-2 08/25/17 09:56

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 119 | 103 | 95.0 | 82.2 | 10.0-160 | | | 14.4 | 23 |
| Acrylonitrile | 125 | 143 | 133 | 115 | 106 | 60.0-142 | | | 7.85 | 20 |
| Benzene | 25.0 | 26.7 | 27.0 | 107 | 108 | 69.0-123 | | | 0.920 | 20 |
| Bromobenzene | 25.0 | 26.5 | 26.3 | 106 | 105 | 79.0-120 | | | 0.700 | 20 |
| Bromodichloromethane | 25.0 | 26.9 | 26.7 | 107 | 107 | 76.0-120 | | | 0.610 | 20 |
| Bromochloromethane | 25.0 | 26.2 | 26.4 | 105 | 106 | 76.0-122 | | | 0.940 | 20 |
| Bromoform | 25.0 | 27.8 | 27.1 | 111 | 108 | 67.0-132 | | | 2.81 | 20 |
| Bromomethane | 25.0 | 26.6 | 26.1 | 106 | 104 | 18.0-160 | | | 1.97 | 20 |
| n-Butylbenzene | 25.0 | 27.7 | 28.2 | 111 | 113 | 72.0-126 | | | 1.91 | 20 |
| sec-Butylbenzene | 25.0 | 27.1 | 27.3 | 109 | 109 | 74.0-121 | | | 0.680 | 20 |
| tert-Butylbenzene | 25.0 | 26.6 | 27.0 | 106 | 108 | 75.0-122 | | | 1.63 | 20 |
| Carbon disulfide | 25.0 | 26.7 | 27.7 | 107 | 111 | 55.0-127 | | | 3.82 | 20 |
| Carbon tetrachloride | 25.0 | 25.4 | 26.5 | 102 | 106 | 63.0-122 | | | 4.32 | 20 |
| Chlorobenzene | 25.0 | 27.3 | 26.3 | 109 | 105 | 79.0-121 | | | 3.51 | 20 |
| Chlorodibromomethane | 25.0 | 26.9 | 26.1 | 108 | 104 | 75.0-125 | | | 3.15 | 20 |
| Chloroethane | 25.0 | 28.6 | 28.5 | 114 | 114 | 47.0-152 | | | 0.260 | 20 |
| Chloroform | 25.0 | 26.2 | 26.9 | 105 | 108 | 72.0-121 | | | 2.58 | 20 |
| Chloromethane | 25.0 | 26.0 | 27.5 | 104 | 110 | 48.0-139 | | | 5.75 | 20 |
| 2-Chlorotoluene | 25.0 | 26.7 | 26.8 | 107 | 107 | 74.0-122 | | | 0.550 | 20 |
| 4-Chlorotoluene | 25.0 | 27.1 | 26.8 | 108 | 107 | 79.0-120 | | | 0.950 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 27.6 | 26.8 | 111 | 107 | 64.0-127 | | | 3.23 | 20 |
| 1,2-Dibromoethane | 25.0 | 27.4 | 26.3 | 110 | 105 | 77.0-123 | | | 4.11 | 20 |
| Dibromomethane | 25.0 | 27.7 | 27.5 | 111 | 110 | 78.0-120 | | | 0.770 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 27.4 | 27.3 | 110 | 109 | 80.0-120 | | | 0.530 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 27.4 | 27.1 | 110 | 108 | 72.0-123 | | | 1.14 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 27.4 | 27.4 | 110 | 110 | 77.0-120 | | | 0.0200 | 20 |
| Dichlorodifluoromethane | 25.0 | 29.7 | 30.7 | 119 | 123 | 49.0-155 | | | 3.26 | 20 |
| 1,1-Dichloroethane | 25.0 | 26.7 | 27.6 | 107 | 110 | 70.0-126 | | | 3.28 | 20 |
| 1,2-Dichloroethane | 25.0 | 27.7 | 27.3 | 111 | 109 | 67.0-126 | | | 1.45 | 20 |
| 1,1-Dichloroethene | 25.0 | 26.9 | 28.2 | 108 | 113 | 64.0-129 | | | 4.73 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 26.1 | 26.6 | 104 | 106 | 73.0-120 | | | 1.89 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 26.2 | 27.3 | 105 | 109 | 71.0-121 | | | 4.29 | 20 |
| 1,2-Dichloropropane | 25.0 | 28.3 | 27.4 | 113 | 110 | 75.0-125 | | | 3.13 | 20 |
| 1,1-Dichloropropene | 25.0 | 27.4 | 28.2 | 110 | 113 | 71.0-129 | | | 2.89 | 20 |
| 1,3-Dichloropropane | 25.0 | 28.2 | 26.5 | 113 | 106 | 80.0-121 | | | 5.98 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 27.4 | 26.9 | 110 | 108 | 79.0-123 | | | 1.86 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 28.3 | 26.9 | 113 | 108 | 74.0-127 | | | 5.15 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 30.6 | 29.3 | 122 | 117 | 55.0-134 | | | 4.22 | 20 |
| 2,2-Dichloropropane | 25.0 | 28.0 | 28.1 | 112 | 113 | 60.0-125 | | | 0.580 | 20 |
| Di-isopropyl ether | 25.0 | 27.0 | 27.1 | 108 | 108 | 59.0-133 | | | 0.260 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3245340-1 08/25/17 09:37 • (LCSD) R3245340-2 08/25/17 09:56

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 26.4 | 26.0 | 106 | 104 | 77.0-120 | | | 1.68 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 23.9 | 25.6 | 95.7 | 102 | 64.0-131 | | | 6.72 | 20 |
| 2-Hexanone | 125 | 139 | 134 | 111 | 107 | 58.0-147 | | | 3.68 | 20 |
| n-Hexane | 25.0 | 27.8 | 28.3 | 111 | 113 | 56.0-124 | | | 1.94 | 20 |
| Iodomethane | 125 | 128 | 132 | 102 | 106 | 57.0-140 | | | 3.43 | 20 |
| Isopropylbenzene | 25.0 | 27.2 | 27.4 | 109 | 110 | 75.0-120 | | | 0.870 | 20 |
| p-Isopropyltoluene | 25.0 | 26.9 | 27.2 | 107 | 109 | 74.0-126 | | | 1.04 | 20 |
| 2-Butanone (MEK) | 125 | 155 | 142 | 124 | 113 | 37.0-158 | | | 8.60 | 20 |
| Methylene Chloride | 25.0 | 25.3 | 25.5 | 101 | 102 | 66.0-121 | | | 0.490 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 141 | 135 | 113 | 108 | 59.0-143 | | | 4.06 | 20 |
| Methyl tert-butyl ether | 25.0 | 27.3 | 27.2 | 109 | 109 | 64.0-123 | | | 0.570 | 20 |
| Naphthalene | 25.0 | 27.8 | 26.9 | 111 | 107 | 62.0-128 | | | 3.25 | 20 |
| n-Propylbenzene | 25.0 | 27.3 | 27.4 | 109 | 109 | 79.0-120 | | | 0.330 | 20 |
| Styrene | 25.0 | 28.0 | 27.1 | 112 | 108 | 78.0-124 | | | 3.10 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 26.4 | 25.8 | 106 | 103 | 75.0-122 | | | 2.30 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 27.0 | 26.1 | 108 | 104 | 71.0-122 | | | 3.27 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 27.7 | 29.0 | 111 | 116 | 61.0-136 | | | 4.34 | 20 |
| Tetrachloroethene | 25.0 | 26.6 | 25.8 | 107 | 103 | 70.0-127 | | | 3.32 | 20 |
| Toluene | 25.0 | 26.0 | 25.5 | 104 | 102 | 77.0-120 | | | 1.98 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 28.0 | 27.0 | 112 | 108 | 61.0-133 | | | 3.87 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 27.2 | 26.8 | 109 | 107 | 69.0-129 | | | 1.78 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 26.5 | 27.5 | 106 | 110 | 68.0-122 | | | 3.52 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 27.4 | 25.8 | 110 | 103 | 78.0-120 | | | 6.00 | 20 |
| Trichloroethene | 25.0 | 26.7 | 27.0 | 107 | 108 | 78.0-120 | | | 1.25 | 20 |
| Trichlorofluoromethane | 25.0 | 26.1 | 26.2 | 104 | 105 | 56.0-137 | | | 0.140 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 27.9 | 26.7 | 112 | 107 | 72.0-124 | | | 4.41 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 26.4 | 26.6 | 106 | 106 | 75.0-120 | | | 0.600 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 27.1 | 27.0 | 109 | 108 | 75.0-120 | | | 0.490 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 26.4 | 26.5 | 106 | 106 | 75.0-120 | | | 0.580 | 20 |
| Vinyl acetate | 125 | 167 | 161 | 134 | 129 | 46.0-160 | | | 3.93 | 20 |
| Vinyl chloride | 25.0 | 27.4 | 28.7 | 110 | 115 | 64.0-133 | | | 4.71 | 20 |
| Xylenes, Total | 75.0 | 80.7 | 79.2 | 108 | 106 | 77.0-120 | | | 1.88 | 20 |
| *(S) Toluene-d8* | | | | *106* | *104* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *100* | *101* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *102* | *101* | *80.0-120* | | | | |

## Abbreviations and Definitions

| | |
|---|---|
| SDG | Sample Delivery Group. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| RDL | Reported Detection Limit. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| RPD | Relative Percent Difference. |
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Rec. | Recovery. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

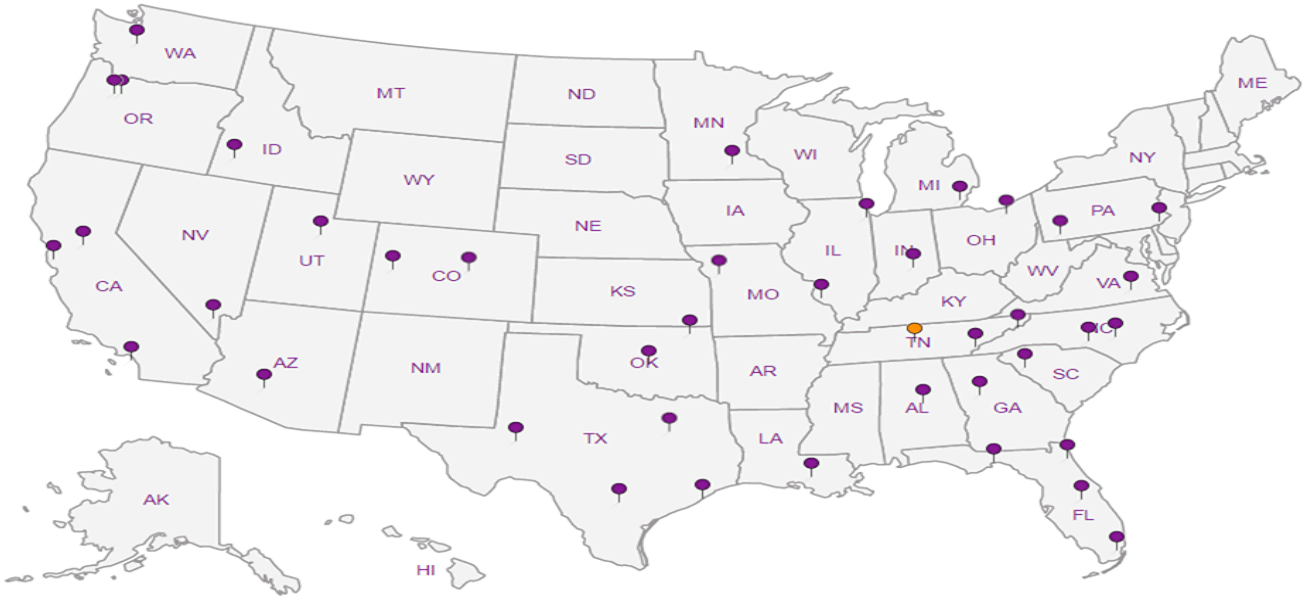
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON McKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody Page ___ of ___

ESC LABORATORIES
a subsidiary of Accutest

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 931390
C209

Acctnum: PESENVSWA
Template: T126586
Prelogin: P613274
TSR: 110 - Brian Ford
PB: 8/10/17 NLB
Shipped Via: FedEX Ground

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~MW~~ B-211-120 | GRAB | SS | 120 | 8/21/17 | 1000 | ~~4~~ 5 | X | | X | X | | | -01 |
| ~~MW~~ B-210-6 | | SS | 6 | | 1515 | ~~4~~ 5 | X | | X | X | | | -02 |
| ~~MW~~ B-210-15 | | SS | 15 | | 1530 | 5 | X | | X | X | | | -03 |
| ~~MW~~ B-210-20 | | SS | 20 | | 1535 | 5 | X | | X | X | | | -04 |
| ~~MW~~ B-210-35 | | SS | 35 | | 1605 | 5 | X | | X | X | | | -05 |
| ~~MW~~ B-210-46 | | SS | 46 | ↓ | 1640 | 5 | X | | X | X | | | -06 |
| ~~DW~~ B-210-60 | ↓ | SS | 60 | ~~0745~~ 8/22/17 | 0745 | 5 | X | | X | X | | | -07 |
| ~~DW~~ B-211-110-W | GRAB | GW | 110 | 8/21/17 | 0835 | ~~4~~ | | X | | | X | HOLD | |
| ~~MW~~ B-211-120-W | ↓ | GW | 120 | ↓ | 1100 | 6 | | X | | | X | | -08 |
| ~~MW~~ TRIP BLANK-082217 | NA | ~~W~~GW | NA | ~~8/21/17~~ | NA | ~~1~~ 2 | | ~~X~~ 2 | | | X | | -09 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 7474 0921 0686

Sample Receipt Checklist
COC Seal Present/Intact: ___ Y ___ N
COC Signed/Accurate: ✓ Y ___ N
Bottles arrive intact: ✓ Y ___ N
Correct bottles used: ✓ Y ___ N
Sufficient volume sent: ✓ Y ___ N
If Applicable
VOA Zero Headspace: ✓ Y ___ N
Preservation Correct/Checked: ___ Y ___ N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| | 8/22/17 | 1620 | | 1 x TB |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: MW 50 °C Bottles Received: |
| | | | | 1.1c 68 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: |
| | | | | 8/23/17 0845 |

If preservation required by Login: Date/Time

8-140

Condition: NCF / OK

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
a subsidiary of Pes Environmental

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

L# 931390

Table #

Acctnum: PESENVSWA
Template: T126586
Prelogin: P613274
TSR: 110 - Brian Ford
PB: 8/10/17 MS
Shipped Via: FedEX Ground

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~MW-~~ B-210-70 | GRAB | SS | 70 | 8/22/17 | 0910 | 5 ~~4~~ | X | | X | X | | | | | | | | -10 |
| ~~MW-~~ B-210-80 | ↓ | SS | 80 | ↓ | 1100 | 5 ~~4~~ | X | | X | X | | | | | | | | -11 |
| ~~MW-~~ B-900-20 | ↓ | SS | 20 | ↓ | 1300 | 5 ~~4~~ | X | | X | X | | | | | | | | -12 |
| MW- 132-20 | ↓ | SS | 20 | ↓ | 1410 | 5 ~~4~~ | X | | X | X | | | | | | | | -13 |
| MW- 132-35 | ↓ | SS | 35 | ↓ | 1505 | 5 ~~4~~ | X | | X | X | | | | | | | | -14 |
| MW- | | SS | | | | 4 | | | X | X | | | | | | | | |
| MW- | | SS | | | | 4 | | | X | X | | | | | | | | |
| MW- | | SS | | | | 4 | | | X | X | | | | | | | | |
| MW- | | SS | | | | 4 | | | X | X | | | | | | | | |
| MW- | | SS | | | | 4 | | | X | X | | | | | | | | |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7474 0921 0686

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| [signature] | 8/22/17 | 1420 | | 1xTB |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp MW SO °C 1.6 Bottles Received: 68 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) [signature] | Date: 8/23/17 Time: 0845 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

# MEMORANDUM

**TO:** Project File **DATE:** September 19, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** August 21-22, 2017 – Soil and Groundwater Samples

**LAB:** ESC Lab ID L931390

---

Twelve (12) soil samples, two (2) groundwater samples, and a trip blank sample were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on August 21-22, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. One groundwater sample was placed on hold. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L931390. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in X# ESC SDGs (L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L934130, L934673, L934916, and). The quality assurance review of the sample data associated with SDG L931390 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on August 21-22, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 1.6 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved water from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of 7 days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C for soils:* Continuing calibration verification (CCV) issues were noted by ESC for chloromethane and dichlorodifluoromethane associated with analytical batch WG1013442 (analyzed on August 24, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample chloromethane and dichlorodifluoromethane results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C for water:* Continuing calibration verification (CCV) issues were noted by ESC for 2-butanone (MEK) associated with analytical batch WG1013682 (analyzed on August 25, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Sample B-211-120 2-butanone (MEK) result with the laboratory qualified J0 result is estimated and qualified (J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at or above the reported detection limits (RDLs) with the following exception:

- Analytical batch WG1013682 (waters): Low levels of naphthalene and 1,2,4-trimethylbenzene were detected in the method blank analyzed on August 25, 2017. Napthalene and 1,2,4-trimethylbenzene were both detected at low levels in the associated sample B-211-120-W and in the Trip Blank. **Sample B-211-120-W results for naphthalene and 1,2,4-trimethylbenzene are qualified as not detected (U) due to blank contamination.**

*NWTPH-Gx Method:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDL.

*Total Solids by SM 2540 G 2011:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (% solids) were not detected at significant levels in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was collected and analyzed. The target analytes (VOCs) were not detected in the method blanks at or above the RDL with the following exceptions:

- Analytical batch WG1013682 (waters): Low levels of acetone, benzene, naphthalene, and 1,2,4-trimethylbenzene were detected in the trip blank analyzed on August 25, 2017. For naphthalene, and 1,2,4-trimethylbenzene refer to the discussion under the method blank. Acetone was detected at low levels in soil sample B-210-6 and in groundwater sample B-211-120-W. Benzene was detected at a low level in groundwater sample B-211-120-W but no action is taken for benzene since 2X the blank detection (0.155 µg/L) is less than the detection in sample B-211-120-W (benzene was detected at 1.65 µg/L and RDL is 0.500 µg/L). **Acetone results in soil sample B-210-6 and in groundwater sample B-211-120-W are qualified as not detected (U) due to trip blank contamination.**

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate (B-210-80 and B-900-20) results are comparable and less than 30% RPD.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results and/or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) and/or MS/MSD results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on client samples B-210-20 and B-210-35. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5% with one exception:

- Sample B-210-35 total solid RPD result was 6%. No action was taken other than to note that since the RPD criteria is fairly stringent at 5% and sample results are not significantly impacted by the percent solid results.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters with the following discussion:

- LCS/LCSD (Batch WG1013442 - soils) RPD values for compounds bromomethane, carbon disulfide, chloroethane, chloromethane, dichlorodifluoromethane, n-hexane, trichlorofluoromethane, and vinyl chloride are above laboratory acceptance criteria (20%) and qualified by the laboratory (J3). No action was taken on this basis as LCS/LCSD percent recovery results are recovered wide but are within control limits with two exceptions. Refer to the discussion below for additional information.

- LCS (Batch WG1013442 - soils) percent recovery for compound dichlorodifluoromethane is slightly below laboratory criteria and qualified by the laboratory (J4). All a**ssociated sample results are estimated and qualified (UJ).**

- LCSD (Batch WG1013442 - soils) percent recovery for compound vinyl chloride is slightly above laboratory criteria and qualified by the laboratory (J4). All a**ssociated sample results with detections are estimated and qualified (J).**

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for water and soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

**Matrix Spike/Matrix Spike Duplicates**

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed client sample B-210-70. MS/MSD % Rs and RPD were within the laboratory control criteria for soils. An MS/MSD was not performed on the water sample. Refer to LCS/LCSD results for accuracy and precision data.

*NWTPH-Gx Method:*
MS/MSD analyses were performed on a non-client sample and on sample B-210-60. MS/MSD % Rs and RPDs were within the laboratory control criteria for soils. Laboratory notes indicate that the results have an elevated RDL as they were reported from a vial preserved with methanol and that vials (for lower level gasoline analysis) preserved with bisulfates were all used up. No action was taken other than to note that this and associated quality control samples are within laboratory criteria.

**Other Quality Control Issues**

No laboratory quality control issues were identified in the laboratory report with the following exceptions:

- ESC notes indicate that no stir bars remain for VOC analysis on samples B-210-15 and B-210-60 (Batch WG1013442). ESC was unable to analyze these samples at a lower level of analyses. No action was taken other than to note this.

- Laboratory notes indicate that the gasoline results for soil samples B-210-15 and B-210-60 have an elevated RDL as they were reported from a vial preserved with methanol and that vials for lower level analyses, preserved with bisulfates, were used in prior runs. No action was taken other than to note this.

**Quantitation Limits**

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.1 | | 1 | 08/28/2017 12:37 | WG1013766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0112 | 0.0561 | 1 | 08/25/2017 03:55 | WG1013442 |
| Acrylonitrile | U | | 0.00201 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Benzene | U | | 0.000303 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Bromobenzene | U | | 0.000319 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Bromodichloromethane | U | | 0.000285 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Bromochloromethane | U | | 0.000438 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| Bromoform | U | | 0.000476 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Bromomethane | U | J3 | 0.00150 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| n-Butylbenzene | U | | 0.000289 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| sec-Butylbenzene | U | | 0.000226 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| tert-Butylbenzene | U | | 0.000231 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Carbon disulfide | U | J3 | 0.000248 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Carbon tetrachloride | U | | 0.000368 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Chlorobenzene | U | | 0.000238 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Chlorodibromomethane | U | | 0.000418 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Chloroethane | U | J3 | 0.00106 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| Chloroform | U | | 0.000257 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| Chloromethane | U UJ | J0 J3 | 0.000421 | 0.00280 | 1 | 08/25/2017 03:55 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000338 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000269 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000385 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Dibromomethane | U | | 0.000429 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000268 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000254 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Dichlorodifluoromethane | U UJ | J0 J3 J4 | 0.000800 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000223 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000297 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000340 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| cis-1,2-Dichloroethene | U | | 0.000264 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000296 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000402 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000356 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000232 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000294 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000300 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000873 | 0.00280 | 1 | 08/25/2017 03:55 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000313 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Di-isopropyl ether | U | | 0.000278 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Ethylbenzene | U | | 0.000333 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000384 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 2-Hexanone | U | | 0.00154 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |
| n-Hexane | U | J3 | 0.000325 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Iodomethane | U | | 0.00284 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Isopropylbenzene | U | | 0.000273 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000229 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00525 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Methylene Chloride | U | | 0.00112 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00211 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000238 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Naphthalene | U | | 0.00112 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| n-Propylbenzene | U | | 0.000231 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Styrene | U | | 0.000263 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000296 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000409 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000409 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Tetrachloroethene | 0.000628 J | J | 0.000310 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Toluene | U | | 0.000487 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000343 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000435 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000321 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000311 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Trichloroethene | 0.000423 J | J | 0.000313 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000429 | 0.00561 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000831 | 0.00280 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000237 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000322 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000298 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Vinyl acetate | U | | 0.00268 | 0.0112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Vinyl chloride | U | J3 J4 | 0.000326 | 0.00112 | 1 | 08/25/2017 03:55 | WG1013442 |
| Xylenes, Total | U | | 0.000783 | 0.00337 | 1 | 08/25/2017 03:55 | WG1013442 |
| *(S) Toluene-d8* | *97.3* | | | *80.0-120* | | *08/25/2017 03:55* | WG1013442 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *08/25/2017 03:55* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *96.7* | | | *64.0-132* | | *08/25/2017 03:55* | WG1013442 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.8 | | 1 | 08/28/2017 12:37 | WG1013766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0351 U | J | 0.0118 | 0.0589 | 1 | 08/25/2017 04:15 | WG1013442 |
| Acrylonitrile | U | | 0.00211 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Benzene | U | | 0.000318 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Bromobenzene | U | | 0.000335 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Bromodichloromethane | U | | 0.000299 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Bromochloromethane | U | | 0.000460 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| Bromoform | U | | 0.000500 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Bromomethane | U | J3 | 0.00158 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| n-Butylbenzene | U | | 0.000304 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| sec-Butylbenzene | U | | 0.000237 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| tert-Butylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Carbon disulfide | 0.000327 J | J J3 | 0.000261 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Carbon tetrachloride | U | | 0.000387 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Chlorobenzene | U | | 0.000250 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Chlorodibromomethane | U | | 0.000440 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Chloroethane | U | J3 | 0.00112 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| Chloroform | U | | 0.000270 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| Chloromethane | U UJ | J0 J3 | 0.000442 | 0.00295 | 1 | 08/25/2017 04:15 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000355 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000283 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000404 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Dibromomethane | U | | 0.000450 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000360 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000282 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000266 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Dichlorodifluoromethane | U UJ | J0 J3 J4 | 0.000841 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000235 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000312 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000357 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| cis-1,2-Dichloroethene | 0.000287 J | J | 0.000277 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000311 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000422 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000374 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000244 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000309 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000315 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000917 | 0.00295 | 1 | 08/25/2017 04:15 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000329 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Di-isopropyl ether | U | | 0.000292 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Ethylbenzene | U | | 0.000350 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000403 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 2-Hexanone | U | | 0.00162 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |
| n-Hexane | U | J3 | 0.000342 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Iodomethane | U | | 0.00298 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Isopropylbenzene | U | | 0.000286 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000241 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00552 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Methylene Chloride | U | | 0.00118 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00222 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000250 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Naphthalene | U | | 0.00118 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Styrene | U | | 0.000276 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000311 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000430 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000430 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Tetrachloroethene | 0.0313 | | 0.000325 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Toluene | U | | 0.000512 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000361 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000457 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000337 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000327 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Trichloroethene | 0.00234 | | 0.000329 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000450 | 0.00589 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000874 | 0.00295 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000338 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000314 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Vinyl chloride | U | J3 J4 | 0.000343 | 0.00118 | 1 | 08/25/2017 04:15 | WG1013442 |
| Xylenes, Total | U | | 0.000823 | 0.00354 | 1 | 08/25/2017 04:15 | WG1013442 |
| *(S) Toluene-d8* | *97.2* | | | *80.0-120* | | *08/25/2017 04:15* | WG1013442 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *08/25/2017 04:15* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *94.4* | | | *64.0-132* | | *08/25/2017 04:15* | WG1013442 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.3 | | 1 | 08/28/2017 12:37 | WG1013766 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.919 | 2.71 | 25 | 08/27/2017 02:52 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.3* | | | *77.0-120* | | *08/27/2017 02:52* | WG1013897 |

**Sample Narrative:**

L931390-03 WG1013897: Elevated RL. Reported from MEOH vial. Bisulfates used in previous runs.

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.271 | 1.35 | 25 | 08/28/2017 17:20 | WG1013442 |
| Acrylonitrile | U | | 0.0485 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Benzene | U | | 0.00731 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Bromobenzene | U | | 0.00769 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Bromodichloromethane | U | | 0.00688 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Bromochloromethane | U | | 0.0106 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| Bromoform | U | | 0.0115 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Bromomethane | U | J3 | 0.0363 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| n-Butylbenzene | U | | 0.00699 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| sec-Butylbenzene | U | | 0.00544 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| tert-Butylbenzene | U | | 0.00558 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Carbon disulfide | U | J3 | 0.00598 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Carbon tetrachloride | U | | 0.00889 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Chlorobenzene | U | | 0.00574 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Chlorodibromomethane | U | | 0.0101 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Chloroethane | U | J3 | 0.0256 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| Chloroform | U | | 0.00620 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| Chloromethane | U | J3 | 0.0102 | 0.0677 | 25 | 08/28/2017 17:20 | WG1013442 |
| 2-Chlorotoluene | U | | 0.00815 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 4-Chlorotoluene | U | | 0.00650 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0284 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.00930 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Dibromomethane | U | | 0.0103 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.00826 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.00648 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.00612 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Dichlorodifluoromethane | U | UJ J3 J4 | 0.0193 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.00540 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.00717 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.00821 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| cis-1,2-Dichloroethene | U | | 0.00637 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.00715 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.00970 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.00858 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.00561 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.00710 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.00724 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.0210 | 0.0677 | 25 | 08/28/2017 17:20 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.00756 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Di-isopropyl ether | U | | 0.00672 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Ethylbenzene | U | | 0.00804 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | U | | 0.00927 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 2-Hexanone | U | | 0.0371 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| n-Hexane | U | J3 | 0.00786 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Iodomethane | U | | 0.0685 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Isopropylbenzene | U | | 0.00659 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| p-Isopropyltoluene | U | | 0.00553 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.127 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Methylene Chloride | U | | 0.0271 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0509 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Methyl tert-butyl ether | 0.0523 | | 0.00574 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Naphthalene | U | | 0.0271 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| n-Propylbenzene | U | | 0.00558 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Styrene | U | | 0.00634 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00715 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00988 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00988 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Tetrachloroethene | 0.0730 | | 0.00748 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Toluene | U | | 0.0117 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.00829 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.0105 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.00775 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.00750 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Trichloroethene | 0.0647 | | 0.00756 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.0103 | 0.135 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.0200 | 0.0677 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.00572 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.00778 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.00721 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Vinyl acetate | U | | 0.0648 | 0.271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Vinyl chloride | U | J3 J4 | 0.00789 | 0.0271 | 25 | 08/28/2017 17:20 | WG1013442 |
| Xylenes, Total | U | | 0.0189 | 0.0813 | 25 | 08/28/2017 17:20 | WG1013442 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/28/2017 17:20* | WG1013442 |
| *(S) Dibromofluoromethane* | *97.9* | | | *74.0-131* | | *08/28/2017 17:20* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *97.0* | | | *64.0-132* | | *08/28/2017 17:20* | WG1013442 |

Sample Narrative:

L931390-03 WG1013442: No stir bars remain for analysis.

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.8 | | 1 | 08/28/2017 12:37 | WG1013766 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0378 | 0.111 | 1 | 08/29/2017 14:24 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.0* | | | *77.0-120* | | *08/29/2017 14:24* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0111 | 0.0557 | 1 | 08/25/2017 04:57 | WG1013442 |
| Acrylonitrile | U | | 0.00199 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Benzene | U | | 0.000301 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Bromobenzene | U | | 0.000316 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Bromodichloromethane | U | | 0.000283 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Bromochloromethane | U | | 0.000434 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| Bromoform | U | | 0.000472 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Bromomethane | U | J3 | 0.00149 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| n-Butylbenzene | U | | 0.000287 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| sec-Butylbenzene | U | | 0.000224 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| tert-Butylbenzene | U | | 0.000229 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Carbon disulfide | U | J3 | 0.000246 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Carbon tetrachloride | U | | 0.000365 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Chlorobenzene | U | | 0.000236 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Chlorodibromomethane | U | | 0.000416 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Chloroethane | U | J3 | 0.00105 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| Chloroform | U | | 0.000255 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| Chloromethane | U UJ | J0 J3 | 0.000418 | 0.00279 | 1 | 08/25/2017 04:57 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000335 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000267 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000382 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Dibromomethane | U | | 0.000426 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000340 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000266 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Dichlorodifluoromethane | U UJ | J0 J3 J4 | 0.000794 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000295 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000338 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| cis-1,2-Dichloroethene | 0.00185 | | 0.000262 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000294 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000399 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000353 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000292 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000297 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000867 | 0.00279 | 1 | 08/25/2017 04:57 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000311 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Di-isopropyl ether | U | | 0.000276 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Ethylbenzene | U | | 0.000331 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000381 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 2-Hexanone | U | | 0.00153 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |
| n-Hexane | U | J3 | 0.000323 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00282 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Isopropylbenzene | U | | 0.000271 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000227 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00521 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Methylene Chloride | U | | 0.00111 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00209 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000236 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Naphthalene | U | | 0.00111 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| n-Propylbenzene | U | | 0.000229 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Styrene | U | | 0.000261 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000294 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000407 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000407 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Tetrachloroethene | U | | 0.000307 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Toluene | U | | 0.000484 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000341 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000432 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Trichloroethene | U | | 0.000311 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000426 | 0.00557 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000826 | 0.00279 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000235 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000296 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Vinyl acetate | U | | 0.00266 | 0.0111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Vinyl chloride | 0.000499 J | J J3 J4 | 0.000324 | 0.00111 | 1 | 08/25/2017 04:57 | WG1013442 |
| Xylenes, Total | U | | 0.000778 | 0.00334 | 1 | 08/25/2017 04:57 | WG1013442 |
| *(S) Toluene-d8* | *98.0* | | | *80.0-120* | | *08/25/2017 04:57* | WG1013442 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *08/25/2017 04:57* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *93.0* | | | *64.0-132* | | *08/25/2017 04:57* | WG1013442 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.6 | J3 | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0391 | 0.115 | 1 | 08/27/2017 03:14 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.2* | | | *77.0-120* | | *08/27/2017 03:14* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0115 | 0.0577 | 1 | 08/25/2017 05:17 | WG1013442 |
| Acrylonitrile | U | | 0.00207 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Benzene | U | | 0.000312 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Bromobenzene | U | | 0.000328 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Bromodichloromethane | U | | 0.000293 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Bromochloromethane | U | | 0.000450 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| Bromoform | U | | 0.000489 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Bromomethane | U | J3 | 0.00155 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| n-Butylbenzene | U | | 0.000298 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| sec-Butylbenzene | U | | 0.000232 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| tert-Butylbenzene | U | | 0.000238 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Carbon disulfide | 0.000783 J | J J3 | 0.000255 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Carbon tetrachloride | U | | 0.000379 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Chlorobenzene | U | | 0.000245 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Chlorodibromomethane | U | | 0.000430 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Chloroethane | U | J3 | 0.00109 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| Chloroform | U | | 0.000264 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| Chloromethane | U UJ | J0 J3 | 0.000433 | 0.00289 | 1 | 08/25/2017 05:17 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000347 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000277 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000396 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Dibromomethane | U | | 0.000441 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000276 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000261 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Dichlorodifluoromethane | U UJ | J0 J3 J4 | 0.000823 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000306 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000350 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| cis-1,2-Dichloroethene | 0.00950 | | 0.000271 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000305 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000413 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000366 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000239 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000302 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000308 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000898 | 0.00289 | 1 | 08/25/2017 05:17 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000322 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Di-isopropyl ether | U | | 0.000286 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Ethylbenzene | U | | 0.000343 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000395 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |
| n-Hexane | U | J3 | 0.000335 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00292 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00540 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Methylene Chloride | U | | 0.00115 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00217 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000245 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Naphthalene | U | | 0.00115 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| n-Propylbenzene | U | | 0.000238 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Styrene | U | | 0.000270 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000305 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000421 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000421 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Tetrachloroethene | 0.00789 | | 0.000319 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Toluene | U | | 0.000501 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000353 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000448 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000330 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000320 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Trichloroethene | 0.00300 | | 0.000322 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000441 | 0.00577 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000855 | 0.00289 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000331 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000307 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Vinyl acetate | U | | 0.00276 | 0.0115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Vinyl chloride | U | J3 J4 | 0.000336 | 0.00115 | 1 | 08/25/2017 05:17 | WG1013442 |
| Xylenes, Total | U | | 0.000806 | 0.00346 | 1 | 08/25/2017 05:17 | WG1013442 |
| *(S) Toluene-d8* | *98.2* | | | *80.0-120* | | *08/25/2017 05:17* | WG1013442 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/25/2017 05:17* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *95.6* | | | *64.0-132* | | *08/25/2017 05:17* | WG1013442 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.8 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.164 | | 0.0369 | 0.109 | 1 | 08/27/2017 03:37 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.5* | | | *77.0-120* | | *08/27/2017 03:37* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0109 | 0.0545 | 1 | 08/25/2017 05:38 | WG1013442 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Bromomethane | U | J3 | 0.00146 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Carbon disulfide | 0.000271 J | J J3 | 0.000241 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Carbon tetrachloride | U | | 0.000357 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Chlorodibromomethane | U | | 0.000406 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Chloroethane | U | J3 | 0.00103 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| Chloroform | U | | 0.000250 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| Chloromethane | U UJ | J0 J3 | 0.000409 | 0.00272 | 1 | 08/25/2017 05:38 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Dibromomethane | U | | 0.000416 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Dichlorodifluoromethane | U UJ | J0 J3 J4 | 0.000777 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1-Dichloroethene | 0.000583 J | J | 0.000330 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| cis-1,2-Dichloroethene | 3.27 | | 0.0269 | 0.114 | 105 | 08/28/2017 17:46 | WG1013442 |
| trans-1,2-Dichloroethene | 0.00790 | | 0.000288 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000848 | 0.00272 | 1 | 08/25/2017 05:38 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |
| n-Hexane | 0.000325 J | J J3 | 0.000316 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000398 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Tetrachloroethene | 0.000912 J | J | 0.000301 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Trichloroethene | 0.000376 J | J | 0.000304 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000416 | 0.00545 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000807 | 0.00272 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Vinyl chloride | 0.00182 J | J3 J4 | 0.000317 | 0.00109 | 1 | 08/25/2017 05:38 | WG1013442 |
| Xylenes, Total | U | | 0.000760 | 0.00327 | 1 | 08/25/2017 05:38 | WG1013442 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *08/28/2017 17:46* | WG1013442 |
| *(S) Toluene-d8* | *98.5* | | | *80.0-120* | | *08/25/2017 05:38* | WG1013442 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/25/2017 05:38* | WG1013442 |
| *(S) Dibromofluoromethane* | *99.1* | | | *74.0-131* | | *08/28/2017 17:46* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *95.3* | | | *64.0-132* | | *08/25/2017 05:38* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *97.4* | | | *64.0-132* | | *08/28/2017 17:46* | WG1013442 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.2 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.910 | 2.68 | 25 | 08/27/2017 07:04 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.9* | | | *77.0-120* | | *08/27/2017 07:04* | WG1013897 |

**Sample Narrative:**

L931390-07 WG1013897: Elevated RL. Reported from MEOH vial. Bisulfates used in previous runs.

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.268 | 1.34 | 25 | 08/28/2017 18:12 | WG1013442 |
| Acrylonitrile | U | | 0.0481 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Benzene | U | | 0.00724 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Bromobenzene | U | | 0.00762 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Bromodichloromethane | U | | 0.00682 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Bromochloromethane | U | | 0.0105 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| Bromoform | U | | 0.0114 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Bromomethane | U | J3 | 0.0360 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| n-Butylbenzene | U | | 0.00692 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| sec-Butylbenzene | U | | 0.00539 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| tert-Butylbenzene | U | | 0.00553 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Carbon disulfide | U | J3 | 0.00592 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Carbon tetrachloride | U | | 0.00880 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Chlorobenzene | U | | 0.00569 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Chlorodibromomethane | U | | 0.0100 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Chloroethane | U | J3 | 0.0253 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| Chloroform | U | | 0.00614 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| Chloromethane | U | J3 | 0.0101 | 0.0671 | 25 | 08/28/2017 18:12 | WG1013442 |
| 2-Chlorotoluene | U | | 0.00807 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 4-Chlorotoluene | U | | 0.00644 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0281 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.00921 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Dibromomethane | U | | 0.0102 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.00818 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.00642 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.00606 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Dichlorodifluoromethane | U | UJ J3 J4 | 0.0191 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.00534 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.00710 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.00814 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| cis-1,2-Dichloroethene | U | | 0.00631 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.00708 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.00961 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.00850 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.00556 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.00703 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.00717 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.0208 | 0.0671 | 25 | 08/28/2017 18:12 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.00749 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Di-isopropyl ether | U | | 0.00665 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Ethylbenzene | U | | 0.00796 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | U | | 0.00918 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 2-Hexanone | U | | 0.0367 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| n-Hexane | U | J3 | 0.00778 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Iodomethane | U | | 0.0678 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Isopropylbenzene | U | | 0.00653 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| p-Isopropyltoluene | U | | 0.00547 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.126 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Methylene Chloride | U | | 0.0268 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0504 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Methyl tert-butyl ether | 0.0446 | | 0.00569 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Naphthalene | U | | 0.0268 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| n-Propylbenzene | U | | 0.00553 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Styrene | U | | 0.00628 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00708 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00979 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00979 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Tetrachloroethene | U | | 0.00741 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Toluene | U | | 0.0116 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.00821 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.00767 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.00743 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Trichloroethene | U | | 0.00749 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.0102 | 0.134 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.0199 | 0.0671 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.00567 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.00771 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.00714 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Vinyl acetate | U | | 0.0642 | 0.268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Vinyl chloride | U | J3 J4 | 0.00781 | 0.0268 | 25 | 08/28/2017 18:12 | WG1013442 |
| Xylenes, Total | U | | 0.0187 | 0.0805 | 25 | 08/28/2017 18:12 | WG1013442 |
| *(S) Toluene-d8* | *93.3* | | | *80.0-120* | | *08/28/2017 18:12* | WG1013442 |
| *(S) Dibromofluoromethane* | *97.5* | | | *74.0-131* | | *08/28/2017 18:12* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *98.4* | | | *64.0-132* | | *08/28/2017 18:12* | WG1013442 |

Sample Narrative:

L931390-07 WG1013442: No stir bars remain for analysis.

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## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 2880 | | 31.6 | 100 | 1 | 08/27/2017 16:52 | WG1013145 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-122* | | *08/27/2017 16:52* | WG1013145 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 8.66 U | J | 1.05 | 25.0 | 1 | 08/25/2017 12:48 | WG1013682 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| Benzene | 1.65 | | 0.0896 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Chloromethane | 0.554 J | J | 0.153 | 1.25 | 1 | 08/25/2017 12:48 | WG1013682 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1-Dichloroethene | 0.249 J | J | 0.188 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| cis-1,2-Dichloroethene | 4.86 | | 0.0933 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| trans-1,2-Dichloroethene | 0.168 J | J | 0.152 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Ethylbenzene | 0.557 | | 0.158 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| 2-Hexanone | 5.14 | | 0.757 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| n-Hexane | 3.68 J | J | 0.305 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 08/25/2017 12:48 | WG1013682 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 2-Butanone (MEK) | 25.2 J | J0 | 1.28 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Naphthalene | 0.262 U | B J | 0.174 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Styrene | 0.168 J | J | 0.117 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Tetrachloroethene | 19.8 | | 0.199 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Toluene | 297 | | 20.6 | 25.0 | 50 | 08/30/2017 02:27 | WG1013682 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Trichloroethene | 8.34 | | 0.153 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2,4-Trimethylbenzene | 0.376 U | B J | 0.123 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 08/25/2017 12:48 | WG1013682 |
| Vinyl chloride | 0.160 J | J | 0.118 | 0.500 | 1 | 08/25/2017 12:48 | WG1013682 |
| Xylenes, Total | 1.67 | | 0.316 | 1.50 | 1 | 08/25/2017 12:48 | WG1013682 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/30/2017 02:27* | WG1013682 |
| *(S) Toluene-d8* | *119* | | | *80.0-120* | | *08/25/2017 12:48* | WG1013682 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *08/30/2017 02:27* | WG1013682 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *08/25/2017 12:48* | WG1013682 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *08/25/2017 12:48* | WG1013682 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *08/30/2017 02:27* | WG1013682 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 1.93 | J | 1.05 | 25.0 | 1 | 08/25/2017 12:08 | WG1013682 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| Benzene | 0.155 | J | 0.0896 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 08/25/2017 12:08 | WG1013682 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 08/25/2017 12:08 | WG1013682 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Naphthalene | 0.479 | B J | 0.174 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Styrene | U | | 0.117 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Toluene | U | | 0.412 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2,4-Trimethylbenzene | 0.161 | B J | 0.123 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 08/25/2017 12:08 | WG1013682 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 08/25/2017 12:08 | WG1013682 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 08/25/2017 12:08 | WG1013682 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *08/25/2017 12:08* | WG1013682 |
| *(S) Dibromofluoromethane* | *104* | | | *76.0-123* | | *08/25/2017 12:08* | WG1013682 |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *80.0-120* | | *08/25/2017 12:08* | WG1013682 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.7 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0366 | 0.108 | 1 | 08/27/2017 04:04 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* | | *08/27/2017 04:04* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0108 | 0.0539 | 1 | 08/25/2017 06:19 | WG1013442 |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Benzene | U | | 0.000291 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Bromobenzene | U | | 0.000306 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Bromodichloromethane | U | | 0.000274 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Bromochloromethane | U | | 0.000421 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| Bromoform | U | | 0.000457 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Bromomethane | U | | 0.00145 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| n-Butylbenzene | U | | 0.000278 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| sec-Butylbenzene | U | | 0.000217 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| tert-Butylbenzene | U | | 0.000222 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Carbon disulfide | 0.000803 J | J | 0.000238 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Carbon tetrachloride | U | | 0.000354 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Chlorobenzene | U | | 0.000229 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Chlorodibromomethane | U | | 0.000402 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Chloroethane | U | | 0.00102 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| Chloroform | U | | 0.000247 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| Chloromethane | U UJ | J0 | 0.000405 | 0.00270 | 1 | 08/25/2017 06:19 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000325 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000259 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000370 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Dibromomethane | U | | 0.000412 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000329 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000258 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000244 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Dichlorodifluoromethane | U UJ | J0 J4 | 0.000769 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000215 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000286 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000327 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| cis-1,2-Dichloroethene | 0.0115 | | 0.000254 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000285 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000386 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000342 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000223 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000283 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000288 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000839 | 0.00270 | 1 | 08/25/2017 06:19 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000301 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Di-isopropyl ether | U | | 0.000268 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Ethylbenzene | U | | 0.000320 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000369 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |
| n-Hexane | 0.00741 J | J | 0.000313 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00273 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Isopropylbenzene | U | | 0.000262 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000220 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00505 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Methylene Chloride | U | | 0.00108 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00203 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000229 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Naphthalene | U | | 0.00108 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| n-Propylbenzene | U | | 0.000222 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Styrene | U | | 0.000252 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000285 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000394 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000394 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Tetrachloroethene | U | | 0.000298 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Toluene | U | | 0.000468 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000419 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000309 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000299 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Trichloroethene | U | | 0.000301 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Trichlorofluoromethane | U | | 0.000412 | 0.00539 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000799 | 0.00270 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000228 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000310 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000287 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Vinyl acetate | U | | 0.00258 | 0.0108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Vinyl chloride | U | J4 | 0.000314 | 0.00108 | 1 | 08/25/2017 06:19 | WG1013442 |
| Xylenes, Total | U | | 0.000753 | 0.00324 | 1 | 08/25/2017 06:19 | WG1013442 |
| *(S) Toluene-d8* | *97.6* | | | *80.0-120* | | *08/25/2017 06:19* | WG1013442 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/25/2017 06:19* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *94.8* | | | *64.0-132* | | *08/25/2017 06:19* | WG1013442 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.5 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0374 | 0.110 | 1 | 08/27/2017 04:52 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.2* | | | *77.0-120* | | *08/27/2017 04:52* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0110 | 0.0552 | 1 | 08/25/2017 06:40 | WG1013442 |
| Acrylonitrile | U | | 0.00198 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Benzene | U | | 0.000298 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Bromobenzene | U | | 0.000314 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Bromodichloromethane | U | | 0.000281 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Bromochloromethane | U | | 0.000431 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| Bromoform | U | | 0.000468 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Bromomethane | U | J3 | 0.00148 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| n-Butylbenzene | U | | 0.000285 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| sec-Butylbenzene | U | | 0.000222 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| tert-Butylbenzene | U | | 0.000228 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Carbon disulfide | U | J3 | 0.000244 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Carbon tetrachloride | U | | 0.000362 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Chlorodibromomethane | U | | 0.000412 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Chloroethane | U | J3 | 0.00104 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| Chloroform | U | | 0.000253 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| Chloromethane | U UJ | J0 J3 | 0.000414 | 0.00276 | 1 | 08/25/2017 06:40 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000265 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000379 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Dibromomethane | U | | 0.000422 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000264 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000250 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Dichlorodifluoromethane | U UJ | J0 J3 J4 | 0.000787 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000220 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000293 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000335 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| cis-1,2-Dichloroethene | 0.000500 J | J | 0.000260 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000292 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000395 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000350 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000229 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000295 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000859 | 0.00276 | 1 | 08/25/2017 06:40 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000308 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Di-isopropyl ether | U | | 0.000274 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Ethylbenzene | U | | 0.000328 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000378 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |
| n-Hexane | U | J3 | 0.000320 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00517 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Methylene Chloride | U | | 0.00110 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00208 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000234 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Naphthalene | U | | 0.00110 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| n-Propylbenzene | U | | 0.000228 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000292 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000403 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000403 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Tetrachloroethene | U | | 0.000305 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Toluene | U | | 0.000479 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000338 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000429 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000316 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000306 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Trichloroethene | U | | 0.000308 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000422 | 0.00552 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000818 | 0.00276 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000233 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000317 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000294 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Vinyl acetate | U | | 0.00264 | 0.0110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Vinyl chloride | 0.000485 J | J J3 J4 | 0.000321 | 0.00110 | 1 | 08/25/2017 06:40 | WG1013442 |
| Xylenes, Total | U | | 0.000771 | 0.00331 | 1 | 08/25/2017 06:40 | WG1013442 |
| *(S) Toluene-d8* | *97.2* | | | *80.0-120* | | *08/25/2017 06:40* | WG1013442 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/25/2017 06:40* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *98.3* | | | *64.0-132* | | *08/25/2017 06:40* | WG1013442 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.2 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0403 | 0.119 | 1 | 08/27/2017 05:14 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.4* | | | *77.0-120* | | *08/27/2017 05:14* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0119 | 0.0594 | 1 | 08/25/2017 07:01 | WG1013442 |
| Acrylonitrile | U | | 0.00213 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Benzene | U | | 0.000321 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Bromobenzene | U | | 0.000337 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Bromodichloromethane | U | | 0.000302 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Bromochloromethane | U | | 0.000463 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| Bromoform | U | | 0.000504 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Bromomethane | U | J3 | 0.00159 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| n-Butylbenzene | U | | 0.000306 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| sec-Butylbenzene | U | | 0.000239 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| tert-Butylbenzene | U | | 0.000245 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Carbon disulfide | U | J3 | 0.000262 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Carbon tetrachloride | U | | 0.000390 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Chlorobenzene | U | | 0.000252 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Chlorodibromomethane | U | | 0.000443 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Chloroethane | U | J3 | 0.00112 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| Chloroform | U | | 0.000272 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| Chloromethane | U UJ | J0 J3 | 0.000445 | 0.00297 | 1 | 08/25/2017 07:01 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000357 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000285 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000407 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Dibromomethane | U | | 0.000454 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000362 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000284 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000268 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Dichlorodifluoromethane | U UJ | J0 J3 J4 | 0.000847 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000236 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000315 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000360 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| cis-1,2-Dichloroethene | 0.000837 J | J | 0.000279 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000314 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000425 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000376 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000246 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000311 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000317 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000924 | 0.00297 | 1 | 08/25/2017 07:01 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000331 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Di-isopropyl ether | U | | 0.000295 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Ethylbenzene | U | | 0.000353 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000406 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 2-Hexanone | U | | 0.00163 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |
| n-Hexane | U | J3 | 0.000344 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00300 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Isopropylbenzene | U | | 0.000289 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000242 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00556 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Methylene Chloride | U | | 0.00119 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00223 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000252 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Naphthalene | U | | 0.00119 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| n-Propylbenzene | U | | 0.000245 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Styrene | U | | 0.000278 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000314 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000433 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000433 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Tetrachloroethene | U | | 0.000328 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Toluene | U | | 0.000515 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000363 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000461 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000340 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000329 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Trichloroethene | U | | 0.000331 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000454 | 0.00594 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000880 | 0.00297 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000251 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000341 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000316 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Vinyl acetate | U | | 0.00284 | 0.0119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Vinyl chloride | U | J3 J4 | 0.000346 | 0.00119 | 1 | 08/25/2017 07:01 | WG1013442 |
| Xylenes, Total | U | | 0.000829 | 0.00356 | 1 | 08/25/2017 07:01 | WG1013442 |
| *(S) Toluene-d8* | *98.2* | | | *80.0-120* | | *08/25/2017 07:01* | WG1013442 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *08/25/2017 07:01* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *97.4* | | | *64.0-132* | | *08/25/2017 07:01* | WG1013442 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.7 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0378 | 0.112 | 1 | 08/27/2017 05:36 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.3* | | | *77.0-120* | | *08/27/2017 05:36* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0112 | 0.0558 | 1 | 08/25/2017 07:21 | WG1013442 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Benzene | U | | 0.000301 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Bromodichloromethane | U | | 0.000283 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Bromochloromethane | U | | 0.000435 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| Bromoform | U | | 0.000473 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Bromomethane | U | J3 | 0.00149 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| sec-Butylbenzene | U | | 0.000224 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Carbon disulfide | U | J3 | 0.000246 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Carbon tetrachloride | U | | 0.000366 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Chlorobenzene | U | | 0.000236 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Chlorodibromomethane | U | | 0.000416 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Chloroethane | U | J3 | 0.00105 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| Chloroform | U | | 0.000255 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| Chloromethane | U UJ | J0 J3 | 0.000418 | 0.00279 | 1 | 08/25/2017 07:21 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000382 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Dibromomethane | U | | 0.000426 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000340 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000266 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Dichlorodifluoromethane | U UJ | J0 J3 J4 | 0.000795 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000295 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000338 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| cis-1,2-Dichloroethene | 0.0108 | | 0.000262 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| trans-1,2-Dichloroethene | 0.000443 J | J | 0.000294 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000399 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000353 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000292 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000868 | 0.00279 | 1 | 08/25/2017 07:21 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000311 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Ethylbenzene | U | | 0.000331 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000381 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |
| n-Hexane | U | J3 | 0.000323 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00282 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Isopropylbenzene | U | | 0.000271 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000227 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00522 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Methylene Chloride | U | | 0.00112 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000236 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Naphthalene | U | | 0.00112 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Styrene | U | | 0.000261 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000294 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000407 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000407 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Tetrachloroethene | 0.000312 J | J | 0.000308 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Toluene | U | | 0.000484 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000433 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Trichloroethene | 0.000380 J | J | 0.000311 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000426 | 0.00558 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000826 | 0.00279 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000235 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Vinyl acetate | U | | 0.00266 | 0.0112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Vinyl chloride | 0.00217 | J3 J4 | 0.000324 | 0.00112 | 1 | 08/25/2017 07:21 | WG1013442 |
| Xylenes, Total | U | | 0.000778 | 0.00335 | 1 | 08/25/2017 07:21 | WG1013442 |
| *(S) Toluene-d8* | *98.2* | | | *80.0-120* | | *08/25/2017 07:21* | WG1013442 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/25/2017 07:21* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *94.5* | | | *64.0-132* | | *08/25/2017 07:21* | WG1013442 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.4 | | 1 | 08/28/2017 16:45 | WG1013768 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0379 | 0.112 | 1 | 08/27/2017 05:58 | WG1013897 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.4* | | | *77.0-120* | | *08/27/2017 05:58* | WG1013897 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0112 | 0.0559 | 1 | 08/25/2017 07:42 | WG1013442 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Benzene | U | | 0.000302 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Bromobenzene | U | | 0.000318 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Bromochloromethane | U | | 0.000436 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| Bromoform | U | | 0.000474 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Bromomethane | U | J3 | 0.00150 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| n-Butylbenzene | U | | 0.000289 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| sec-Butylbenzene | U | | 0.000225 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Carbon disulfide | 0.00118 | J3 | 0.000247 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Carbon tetrachloride | U | | 0.000367 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Chlorodibromomethane | U | | 0.000417 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Chloroethane | U | J3 | 0.00106 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| Chloroform | U | | 0.000256 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| Chloromethane | U UJ | J0 J3 | 0.000420 | 0.00280 | 1 | 08/25/2017 07:42 | WG1013442 |
| 2-Chlorotoluene | U | | 0.000337 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 4-Chlorotoluene | U | | 0.000269 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2-Dibromoethane | U | | 0.000384 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Dibromomethane | U | | 0.000427 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2-Dichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,4-Dichlorobenzene | U | | 0.000253 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Dichlorodifluoromethane | U UJ | J0 J3 J4 | 0.000798 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1-Dichloroethane | U | | 0.000223 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2-Dichloroethane | U | | 0.000297 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1-Dichloroethene | U | | 0.000339 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| cis-1,2-Dichloroethene | 0.00506 | | 0.000263 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| trans-1,2-Dichloroethene | U | | 0.000295 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2-Dichloropropane | U | | 0.000401 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1-Dichloropropene | U | | 0.000355 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,3-Dichloropropane | U | | 0.000232 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| cis-1,3-Dichloropropene | U | | 0.000293 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| trans-1,3-Dichloropropene | U | | 0.000299 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| trans-1,4-Dichloro-2-butene | U | | 0.000871 | 0.00280 | 1 | 08/25/2017 07:42 | WG1013442 |
| 2,2-Dichloropropane | U | | 0.000312 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Hexachloro-1,3-butadiene | U | | 0.000383 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |
| n-Hexane | U | J3 | 0.000324 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Isopropylbenzene | U | | 0.000272 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 2-Butanone (MEK) | U | | 0.00524 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Methylene Chloride | U | | 0.00112 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Naphthalene | U | | 0.00112 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Styrene | U | | 0.000262 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000408 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000408 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Tetrachloroethene | 0.00166 | | 0.000309 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Toluene | U | | 0.000486 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2,4-Trichlorobenzene | U | | 0.000434 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1,1-Trichloroethane | U | | 0.000320 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,1,2-Trichloroethane | U | | 0.000310 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Trichloroethene | U | | 0.000312 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Trichlorofluoromethane | U | J3 | 0.000427 | 0.00559 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2,3-Trichloropropane | U | | 0.000829 | 0.00280 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,2,3-Trimethylbenzene | U | | 0.000321 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| 1,3,5-Trimethylbenzene | U | | 0.000298 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Vinyl chloride | 0.00377 UJ | J3 J4 | 0.000326 | 0.00112 | 1 | 08/25/2017 07:42 | WG1013442 |
| Xylenes, Total | U | | 0.000781 | 0.00336 | 1 | 08/25/2017 07:42 | WG1013442 |
| *(S) Toluene-d8* | *95.4* | | | *80.0-120* | | *08/25/2017 07:42* | WG1013442 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/25/2017 07:42* | WG1013442 |
| *(S) 4-Bromofluorobenzene* | *94.4* | | | *64.0-132* | | *08/25/2017 07:42* | WG1013442 |

JC 9/19/2017

# ANALYTICAL REPORT

August 30, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L931655 |
| Samples Received: | 08/24/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Jason Romer
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## MW-132-50 L931655-01 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/22/17 17:10 | Received date/time: 08/24/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1014628 | 1 | 08/29/17 12:17 | 08/29/17 12:31 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014268 | 1 | 08/22/17 17:10 | 08/28/17 16:46 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013822 | 1 | 08/22/17 17:10 | 08/26/17 17:07 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013822 | 25 | 08/22/17 17:10 | 08/28/17 18:38 | BMB |

## MW-132-55 L931655-02 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/23/17 08:10 | Received date/time: 08/24/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1014667 | 1 | 08/29/17 12:33 | 08/29/17 12:56 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014268 | 25 | 08/23/17 08:10 | 08/30/17 10:04 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013822 | 100 | 08/23/17 08:10 | 08/26/17 17:28 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013822 | 10000 | 08/23/17 08:10 | 08/28/17 19:04 | BMB |

## MW-132-60 L931655-03 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/23/17 09:05 | Received date/time: 08/24/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1014667 | 1 | 08/29/17 12:33 | 08/29/17 12:56 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014268 | 1 | 08/23/17 09:05 | 08/28/17 17:08 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013822 | 1 | 08/23/17 09:05 | 08/26/17 17:49 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013822 | 27.25 | 08/23/17 09:05 | 08/28/17 19:30 | BMB |

## MW-132-70 L931655-04 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/23/17 10:35 | Received date/time: 08/24/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1014667 | 1 | 08/29/17 12:33 | 08/29/17 12:56 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014268 | 25 | 08/23/17 10:35 | 08/30/17 02:02 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013822 | 1 | 08/23/17 10:35 | 08/26/17 18:10 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013822 | 25 | 08/23/17 10:35 | 08/28/17 20:21 | BMB |

## MW-132-83 L931655-05 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/23/17 12:05 | Received date/time: 08/24/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1014667 | 1 | 08/29/17 12:33 | 08/29/17 12:56 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014268 | 25 | 08/23/17 12:05 | 08/30/17 02:24 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013822 | 1 | 08/23/17 12:05 | 08/26/17 18:31 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1013822 | 25 | 08/23/17 12:05 | 08/28/17 20:47 | BMB |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.4 | | 1 | 08/29/2017 12:31 | WG1014628 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.97 | | 0.0367 | 0.108 | 1 | 08/28/2017 16:46 | WG1014268 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.0* | | | *77.0-120* | | *08/28/2017 16:46* | WG1014268 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0231 | J | 0.0108 | 0.0541 | 1 | 08/26/2017 17:07 | WG1013822 |
| Acrylonitrile | U | | 0.00194 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Benzene | U | | 0.000292 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Bromobenzene | U | J4 | 0.000307 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Bromochloromethane | U | | 0.000422 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| Bromoform | U | | 0.000459 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Bromomethane | U | | 0.00145 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| n-Butylbenzene | U | | 0.000279 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| sec-Butylbenzene | U | | 0.000217 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Carbon disulfide | 0.00341 | J0 | 0.000239 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Carbon tetrachloride | U | | 0.000355 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Chlorobenzene | U | | 0.000229 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Chlorodibromomethane | U | | 0.000404 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Chloroethane | U | | 0.00102 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| Chloroform | U | | 0.000248 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| Chloromethane | U | | 0.000406 | 0.00270 | 1 | 08/26/2017 17:07 | WG1013822 |
| 2-Chlorotoluene | U | | 0.000326 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 4-Chlorotoluene | U | J4 | 0.000260 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2-Dibromoethane | U | | 0.000371 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Dibromomethane | U | | 0.000413 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2-Dichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,3-Dichlorobenzene | U | | 0.000259 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,4-Dichlorobenzene | U | | 0.000244 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Dichlorodifluoromethane | U | | 0.000771 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1-Dichloroethane | U | | 0.000215 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2-Dichloroethane | U | J4 | 0.000287 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1-Dichloroethene | 0.00220 | | 0.000328 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| cis-1,2-Dichloroethene | 4.62 | | 0.00636 | 0.0270 | 25 | 08/28/2017 18:38 | WG1013822 |
| trans-1,2-Dichloroethene | 0.0405 | | 0.000286 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2-Dichloropropane | U | | 0.000387 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1-Dichloropropene | U | | 0.000343 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| cis-1,3-Dichloropropene | U | | 0.000283 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| trans-1,3-Dichloropropene | U | | 0.000289 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| trans-1,4-Dichloro-2-butene | U | | 0.000842 | 0.00270 | 1 | 08/26/2017 17:07 | WG1013822 |
| 2,2-Dichloropropane | U | | 0.000302 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Di-isopropyl ether | U | | 0.000268 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Ethylbenzene | U | | 0.000321 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Hexachloro-1,3-butadiene | U | | 0.000370 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |
| n-Hexane | 0.00271 | J | 0.000314 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00274 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Isopropylbenzene | U | | 0.000263 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 2-Butanone (MEK) | U | | 0.00506 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Methylene Chloride | U | | 0.00108 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00203 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Methyl tert-butyl ether | U | | 0.000229 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Naphthalene | U | | 0.00108 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Styrene | U | | 0.000253 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000286 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000395 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000395 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Tetrachloroethene | 0.109 | | 0.000299 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Toluene | U | | 0.000470 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2,3-Trichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2,4-Trichlorobenzene | U | | 0.000420 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1,1-Trichloroethane | U | | 0.000309 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1,2-Trichloroethane | U | | 0.000300 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Trichloroethene | 0.153 | | 0.000302 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Trichlorofluoromethane | U | | 0.000413 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2,3-Trichloropropane | U | | 0.000802 | 0.00270 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2,4-Trimethylbenzene | U | | 0.000228 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2,3-Trimethylbenzene | U | | 0.000310 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Vinyl acetate | U | | 0.00259 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Vinyl chloride | 0.00219 | | 0.000315 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Xylenes, Total | U | | 0.000755 | 0.00325 | 1 | 08/26/2017 17:07 | WG1013822 |
| *(S) Toluene-d8* | *91.8* | | | *80.0-120* | | *08/26/2017 17:07* | WG1013822 |
| *(S) Toluene-d8* | *99.0* | | | *80.0-120* | | *08/28/2017 18:38* | WG1013822 |
| *(S) Dibromofluoromethane* | *97.5* | | | *74.0-131* | | *08/28/2017 18:38* | WG1013822 |
| *(S) Dibromofluoromethane* | *117* | | | *74.0-131* | | *08/26/2017 17:07* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/26/2017 17:07* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *98.5* | | | *64.0-132* | | *08/28/2017 18:38* | WG1013822 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.0 | | 1 | 08/29/2017 12:56 | WG1014667 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 126 | | 0.975 | 2.87 | 25 | 08/30/2017 10:04 | WG1014268 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *08/30/2017 10:04* | WG1014268 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 1.15 | 5.75 | 100 | 08/26/2017 17:28 | WG1013822 |
| Acrylonitrile | U | | 0.206 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |
| Benzene | U | | 0.0310 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Bromobenzene | U | J4 | 0.0327 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Bromodichloromethane | U | | 0.0292 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Bromochloromethane | U | | 0.0448 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| Bromoform | U | | 0.0488 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Bromomethane | U | | 0.154 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| n-Butylbenzene | U | | 0.0297 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| sec-Butylbenzene | U | | 0.0231 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| tert-Butylbenzene | U | | 0.0237 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Carbon disulfide | U | | 0.0254 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Carbon tetrachloride | U | | 0.0377 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Chlorobenzene | U | | 0.0244 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Chlorodibromomethane | U | | 0.0429 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Chloroethane | U | | 0.109 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| Chloroform | U | | 0.0263 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| Chloromethane | U | | 0.0431 | 0.287 | 100 | 08/26/2017 17:28 | WG1013822 |
| 2-Chlorotoluene | U | | 0.0346 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 4-Chlorotoluene | U | J4 | 0.0276 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.121 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2-Dibromoethane | U | | 0.0394 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Dibromomethane | U | | 0.0439 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2-Dichlorobenzene | U | | 0.0351 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,3-Dichlorobenzene | U | | 0.0275 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,4-Dichlorobenzene | U | | 0.0260 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Dichlorodifluoromethane | U | | 0.0820 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1-Dichloroethane | U | | 0.0229 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2-Dichloroethane | U | J4 | 0.0305 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1-Dichloroethene | U | | 0.0348 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| cis-1,2-Dichloroethene | 2.22 | | 0.0270 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| trans-1,2-Dichloroethene | 0.0725 | J | 0.0304 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2-Dichloropropane | U | | 0.0412 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1-Dichloropropene | U | | 0.0365 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,3-Dichloropropane | U | | 0.0238 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| cis-1,3-Dichloropropene | U | | 0.0301 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| trans-1,3-Dichloropropene | U | | 0.0307 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| trans-1,4-Dichloro-2-butene | U | | 0.0895 | 0.287 | 100 | 08/26/2017 17:28 | WG1013822 |
| 2,2-Dichloropropane | U | | 0.0321 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Di-isopropyl ether | U | | 0.0285 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Ethylbenzene | U | | 0.0342 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Hexachloro-1,3-butadiene | U | | 0.0393 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 2-Hexanone | U | | 0.158 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |
| n-Hexane | U | | 0.0333 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.291 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |
| Isopropylbenzene | U | | 0.0279 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| p-Isopropyltoluene | U | | 0.0235 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 2-Butanone (MEK) | U | | 0.538 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |
| Methylene Chloride | U | | 0.115 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.216 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |
| Methyl tert-butyl ether | 0.159 | | 0.0244 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Naphthalene | U | | 0.115 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| n-Propylbenzene | 0.0501 | J | 0.0237 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Styrene | U | | 0.0269 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0304 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0420 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0420 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Tetrachloroethene | 385 | | 3.17 | 11.5 | 10000 | 08/28/2017 19:04 | WG1013822 |
| Toluene | U | | 0.0499 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2,3-Trichlorobenzene | U | | 0.0352 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2,4-Trichlorobenzene | U | | 0.0446 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1,1-Trichloroethane | U | | 0.0329 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1,2-Trichloroethane | U | | 0.0319 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Trichloroethene | 9.63 | | 0.0321 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Trichlorofluoromethane | U | | 0.0439 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2,3-Trichloropropane | U | | 0.0852 | 0.287 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2,4-Trimethylbenzene | 0.212 | | 0.0243 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2,3-Trimethylbenzene | 0.0533 | J | 0.0330 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,3,5-Trimethylbenzene | 0.0664 | J | 0.0306 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Vinyl acetate | U | | 0.275 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |
| Vinyl chloride | U | | 0.0335 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Xylenes, Total | U | | 0.0803 | 0.345 | 100 | 08/26/2017 17:28 | WG1013822 |
| *(S) Toluene-d8* | *95.7* | | | *80.0-120* | | *08/26/2017 17:28* | WG1013822 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *08/28/2017 19:04* | WG1013822 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *08/26/2017 17:28* | WG1013822 |
| *(S) Dibromofluoromethane* | *97.6* | | | *74.0-131* | | *08/28/2017 19:04* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *99.0* | | | *64.0-132* | | *08/28/2017 19:04* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/26/2017 17:28* | WG1013822 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.9 | | 1 | 08/29/2017 12:56 | WG1014667 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.276 | | 0.0365 | 0.108 | 1 | 08/28/2017 17:08 | WG1014268 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.9* | | | *77.0-120* | | *08/28/2017 17:08* | WG1014268 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0149 | J | 0.0108 | 0.0538 | 1 | 08/26/2017 17:49 | WG1013822 |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Benzene | U | | 0.000291 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Bromobenzene | U | J4 | 0.000306 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Bromodichloromethane | U | | 0.000274 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Bromochloromethane | U | | 0.000420 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| Bromoform | U | | 0.000457 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Bromomethane | U | | 0.00144 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| n-Butylbenzene | U | | 0.000278 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| sec-Butylbenzene | U | | 0.000216 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| tert-Butylbenzene | U | | 0.000222 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Carbon disulfide | 0.00175 | J0 | 0.000238 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Carbon tetrachloride | U | | 0.000353 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Chlorobenzene | U | | 0.000228 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Chlorodibromomethane | U | | 0.000402 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Chloroethane | U | | 0.00102 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| Chloroform | U | | 0.000247 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| Chloromethane | U | | 0.000404 | 0.00269 | 1 | 08/26/2017 17:49 | WG1013822 |
| 2-Chlorotoluene | U | | 0.000324 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 4-Chlorotoluene | U | J4 | 0.000258 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2-Dibromoethane | U | | 0.000369 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Dibromomethane | U | | 0.000411 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Dichlorodifluoromethane | U | | 0.000768 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2-Dichloroethane | U | J4 | 0.000285 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,1-Dichloroethene | 0.00121 | | 0.000326 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| cis-1,2-Dichloroethene | 0.0871 | | 0.000253 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| trans-1,2-Dichloroethene | 0.000785 | J | 0.000284 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2-Dichloropropane | U | | 0.000386 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,1-Dichloropropene | U | | 0.000341 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,3-Dichloropropane | U | | 0.000223 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| cis-1,3-Dichloropropene | U | | 0.000282 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| trans-1,3-Dichloropropene | U | | 0.000288 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| trans-1,4-Dichloro-2-butene | U | | 0.000838 | 0.00269 | 1 | 08/26/2017 17:49 | WG1013822 |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Di-isopropyl ether | U | | 0.000267 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Ethylbenzene | U | | 0.000320 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Hexachloro-1,3-butadiene | U | | 0.000368 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 |
| n-Hexane | 0.000678 | J | 0.000312 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00272 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Isopropylbenzene | U | | 0.000262 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| p-Isopropyltoluene | U | | 0.000220 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 2-Butanone (MEK) | U | | 0.00504 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Methylene Chloride | U | | 0.00108 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Methyl tert-butyl ether | U | | 0.000228 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Naphthalene | U | | 0.00108 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| n-Propylbenzene | U | | 0.000222 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Styrene | U | | 0.000252 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000393 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000393 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Tetrachloroethene | 3.92 | | 0.00810 | 0.0293 | 27.25 | 08/28/2017 19:30 | WG1013822 |
| Toluene | U | | 0.000467 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2,3-Trichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2,4-Trichlorobenzene | U | | 0.000418 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,1,1-Trichloroethane | U | | 0.000308 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Trichloroethene | 4.60 | | 0.00818 | 0.0293 | 27.25 | 08/28/2017 19:30 | WG1013822 |
| Trichlorofluoromethane | U | | 0.000411 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2,3-Trichloropropane | U | | 0.000798 | 0.00269 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2,3-Trimethylbenzene | U | | 0.000309 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Vinyl acetate | U | | 0.00257 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Vinyl chloride | 0.000808 | J | 0.000313 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Xylenes, Total | U | | 0.000752 | 0.00323 | 1 | 08/26/2017 17:49 | WG1013822 |
| *(S) Toluene-d8* | *91.1* | | | *80.0-120* | | *08/28/2017 19:30* | WG1013822 |
| *(S) Toluene-d8* | *92.5* | | | *80.0-120* | | *08/26/2017 17:49* | WG1013822 |
| *(S) Dibromofluoromethane* | *117* | | | *74.0-131* | | *08/26/2017 17:49* | WG1013822 |
| *(S) Dibromofluoromethane* | *96.7* | | | *74.0-131* | | *08/28/2017 19:30* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/26/2017 17:49* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *98.4* | | | *64.0-132* | | *08/28/2017 19:30* | WG1013822 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.0 | | 1 | 08/29/2017 12:56 | WG1014667 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 1.03 | 3.05 | 25 | 08/30/2017 02:02 | WG1014268 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* | | *08/30/2017 02:02* | WG1014268 |

**Sample Narrative:**

L931655-04 WG1014268: No stir bars remain for analysis.

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0182 | J | 0.0122 | 0.0610 | 1 | 08/26/2017 18:10 | WG1013822 |
| Acrylonitrile | U | | 0.00218 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Benzene | U | | 0.000329 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Bromobenzene | U | J4 | 0.000346 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Bromodichloromethane | U | | 0.000310 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Bromochloromethane | U | | 0.000475 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| Bromoform | U | | 0.000517 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Bromomethane | U | | 0.00163 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| n-Butylbenzene | U | | 0.000315 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| sec-Butylbenzene | U | | 0.000245 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| tert-Butylbenzene | U | | 0.000251 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Carbon disulfide | 0.000464 | J | 0.000269 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Carbon tetrachloride | U | | 0.000400 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Chlorobenzene | U | | 0.000258 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Chlorodibromomethane | U | | 0.000455 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Chloroethane | U | | 0.00115 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| Chloroform | U | | 0.000279 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| Chloromethane | U | | 0.000457 | 0.00305 | 1 | 08/26/2017 18:10 | WG1013822 |
| 2-Chlorotoluene | U | | 0.000367 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 4-Chlorotoluene | U | J4 | 0.000293 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00128 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2-Dibromoethane | U | | 0.000418 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Dibromomethane | U | | 0.000466 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2-Dichlorobenzene | U | | 0.000372 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,3-Dichlorobenzene | U | | 0.000291 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,4-Dichlorobenzene | U | | 0.000276 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Dichlorodifluoromethane | U | | 0.000869 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1-Dichloroethane | U | | 0.000243 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2-Dichloroethane | U | J4 | 0.000323 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1-Dichloroethene | U | | 0.000369 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| cis-1,2-Dichloroethene | 0.000586 | J | 0.000286 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| trans-1,2-Dichloroethene | U | | 0.000322 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2-Dichloropropane | U | | 0.000436 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1-Dichloropropene | U | | 0.000386 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,3-Dichloropropane | U | | 0.000252 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| cis-1,3-Dichloropropene | U | | 0.000319 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| trans-1,3-Dichloropropene | U | | 0.000325 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| trans-1,4-Dichloro-2-butene | U | | 0.000948 | 0.00305 | 1 | 08/26/2017 18:10 | WG1013822 |
| 2,2-Dichloropropane | U | | 0.000340 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Di-isopropyl ether | U | | 0.000302 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Ethylbenzene | U | | 0.000362 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | U | | 0.000417 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 2-Hexanone | U | | 0.00167 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| n-Hexane | 0.000499 | J | 0.000354 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Iodomethane | U | | 0.00308 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Isopropylbenzene | U | | 0.000296 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| p-Isopropyltoluene | U | | 0.000249 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 2-Butanone (MEK) | U | | 0.00571 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Methylene Chloride | U | | 0.00122 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00229 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Methyl tert-butyl ether | U | | 0.000258 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Naphthalene | U | | 0.00122 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| n-Propylbenzene | U | | 0.000251 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Styrene | U | | 0.000285 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000322 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000445 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000445 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Tetrachloroethene | 0.00905 | J | 0.00841 | 0.0305 | 25 | 08/28/2017 20:21 | WG1013822 |
| Toluene | U | | 0.000529 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2,3-Trichlorobenzene | U | | 0.000373 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2,4-Trichlorobenzene | U | | 0.000473 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1,1-Trichloroethane | U | | 0.000349 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1,2-Trichloroethane | U | | 0.000338 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Trichloroethene | U | | 0.00851 | 0.0305 | 25 | 08/28/2017 20:21 | WG1013822 |
| Trichlorofluoromethane | U | | 0.000466 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2,3-Trichloropropane | U | | 0.000903 | 0.00305 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2,4-Trimethylbenzene | U | | 0.000257 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2,3-Trimethylbenzene | U | | 0.000350 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,3,5-Trimethylbenzene | U | | 0.000324 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Vinyl acetate | U | | 0.00291 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Vinyl chloride | U | | 0.000355 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Xylenes, Total | U | | 0.000851 | 0.00366 | 1 | 08/26/2017 18:10 | WG1013822 |
| *(S) Toluene-d8* | *91.0* | | | *80.0-120* | | *08/26/2017 18:10* | WG1013822 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/28/2017 20:21* | WG1013822 |
| *(S) Dibromofluoromethane* | *96.8* | | | *74.0-131* | | *08/28/2017 20:21* | WG1013822 |
| *(S) Dibromofluoromethane* | *118* | | | *74.0-131* | | *08/26/2017 18:10* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *95.3* | | | *64.0-132* | | *08/28/2017 20:21* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *08/26/2017 18:10* | WG1013822 |

**Sample Narrative:**

L931655-04 WG1013822: No stir bars remain for analysis.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.7 | | 1 | 08/29/2017 12:56 | WG1014667 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.925 | 2.73 | 25 | 08/30/2017 02:24 | WG1014268 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* | | *08/30/2017 02:24* | WG1014268 |

**Sample Narrative:**

L931655-05 WG1014268: No stir bars remain for analysis.

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0262 | J | 0.0109 | 0.0545 | 1 | 08/26/2017 18:31 | WG1013822 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Benzene | 0.000302 | J | 0.000295 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Bromobenzene | U | J4 | 0.000310 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| Bromoform | U | | 0.000463 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Bromomethane | U | | 0.00146 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Carbon disulfide | 0.00271 | | 0.000241 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| Chloroform | U | | 0.000250 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| Chloromethane | U | | 0.000409 | 0.00273 | 1 | 08/26/2017 18:31 | WG1013822 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 4-Chlorotoluene | U | J4 | 0.000262 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,4-Dichlorobenzene | U | | 0.000247 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Dichlorodifluoromethane | U | | 0.000778 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2-Dichloroethane | U | J4 | 0.000289 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1-Dichloroethene | U | | 0.000331 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| cis-1,2-Dichloroethene | 0.000283 | J | 0.000256 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2-Dichloropropane | U | | 0.000391 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| trans-1,4-Dichloro-2-butene | U | | 0.000849 | 0.00273 | 1 | 08/26/2017 18:31 | WG1013822 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Di-isopropyl ether | U | | 0.000271 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| n-Hexane | U | | 0.000316 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000398 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Tetrachloroethene | U | | 0.00753 | 0.0273 | 25 | 08/28/2017 20:47 | WG1013822 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Trichloroethene | U | | 0.000304 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Trichlorofluoromethane | U | | 0.000417 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2,3-Trichloropropane | U | | 0.000808 | 0.00273 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Vinyl chloride | U | | 0.000317 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Xylenes, Total | U | | 0.000761 | 0.00327 | 1 | 08/26/2017 18:31 | WG1013822 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *08/28/2017 20:47* | WG1013822 |
| *(S) Toluene-d8* | *90.2* | | | *80.0-120* | | *08/26/2017 18:31* | WG1013822 |
| *(S) Dibromofluoromethane* | *119* | | | *74.0-131* | | *08/26/2017 18:31* | WG1013822 |
| *(S) Dibromofluoromethane* | *97.0* | | | *74.0-131* | | *08/28/2017 20:47* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/26/2017 18:31* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *98.0* | | | *64.0-132* | | *08/28/2017 20:47* | WG1013822 |

Sample Narrative:

L931655-05 WG1013822: No stir bars remain for analysis.

## Method Blank (MB)

(MB) R3245479-1 08/29/17 12:31

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L931655-01 Original Sample (OS) • Duplicate (DUP)

(OS) L931655-01 08/29/17 12:31 • (DUP) R3245479-3 08/29/17 12:31

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 92.4 | 92.8 | 1 | 0.436 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3245479-2 08/29/17 12:31

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3245536-1 08/29/17 12:56

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L931655-02 Original Sample (OS) • Duplicate (DUP)

(OS) L931655-02 08/29/17 12:56 • (DUP) R3245536-3 08/29/17 12:56

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 87.0 | 88.5 | 1 | 1.76 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3245536-2 08/29/17 12:56

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3245357-3 08/28/17 11:04

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3245357-1 08/28/17 09:58 • (LCSD) R3245357-2 08/28/17 10:20

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | 5.31 | 5.34 | 96.6 | 97.2 | 70.0-133 | | | 0.600 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *103* | *103* | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3244836-2 08/26/17 12:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3244836-2 08/26/17 12:38

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3244836-1 08/26/17 11:12 • (LCSD) R3244836-3 08/26/17 13:19

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.183 | 0.159 | 146 | 128 | 11.0-160 | | | 13.5 | 23 |
| Acrylonitrile | 0.125 | 0.177 | 0.155 | 142 | 124 | 61.0-143 | | | 12.9 | 20 |
| Benzene | 0.0250 | 0.0297 | 0.0298 | 119 | 119 | 71.0-124 | | | 0.370 | 20 |
| Bromobenzene | 0.0250 | 0.0290 | 0.0302 | 116 | 121 | 78.0-120 | | J4 | 4.24 | 20 |
| Bromodichloromethane | 0.0250 | 0.0282 | 0.0277 | 113 | 111 | 75.0-120 | | | 1.76 | 20 |
| Bromochloromethane | 0.0250 | 0.0287 | 0.0274 | 115 | 109 | 80.0-121 | | | 4.83 | 20 |
| Bromoform | 0.0250 | 0.0302 | 0.0296 | 121 | 118 | 65.0-133 | | | 2.21 | 20 |
| Bromomethane | 0.0250 | 0.0252 | 0.0266 | 101 | 107 | 26.0-160 | | | 5.50 | 20 |
| n-Butylbenzene | 0.0250 | 0.0237 | 0.0234 | 95.0 | 93.4 | 73.0-126 | | | 1.61 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0240 | 0.0246 | 96.1 | 98.6 | 75.0-121 | | | 2.59 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0247 | 0.0252 | 98.9 | 101 | 74.0-122 | | | 1.99 | 20 |
| Carbon disulfide | 0.0250 | 0.0315 | 0.0316 | 126 | 126 | 53.0-130 | | | 0.210 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0278 | 0.0285 | 111 | 114 | 66.0-123 | | | 2.30 | 20 |
| Chlorobenzene | 0.0250 | 0.0238 | 0.0245 | 95.2 | 97.9 | 79.0-121 | | | 2.71 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0254 | 0.0247 | 101 | 98.8 | 74.0-128 | | | 2.71 | 20 |
| Chloroethane | 0.0250 | 0.0284 | 0.0288 | 113 | 115 | 51.0-147 | | | 1.50 | 20 |
| Chloroform | 0.0250 | 0.0292 | 0.0296 | 117 | 118 | 73.0-123 | | | 1.51 | 20 |
| Chloromethane | 0.0250 | 0.0318 | 0.0332 | 127 | 133 | 51.0-138 | | | 4.19 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0279 | 0.0295 | 112 | 118 | 72.0-124 | | | 5.74 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0283 | 0.0302 | 113 | 121 | 78.0-120 | | J4 | 6.50 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0293 | 0.0252 | 117 | 101 | 65.0-126 | | | 15.1 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0254 | 0.0240 | 102 | 95.9 | 78.0-122 | | | 5.86 | 20 |
| Dibromomethane | 0.0250 | 0.0285 | 0.0275 | 114 | 110 | 79.0-120 | | | 3.50 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0265 | 0.0262 | 106 | 105 | 80.0-120 | | | 1.34 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0252 | 0.0255 | 101 | 102 | 72.0-123 | | | 1.12 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0255 | 0.0259 | 102 | 103 | 77.0-120 | | | 1.40 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0268 | 0.0277 | 107 | 111 | 68.0-126 | | | 3.60 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0309 | 0.0314 | 124 | 126 | 49.0-155 | | | 1.63 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0312 | 0.0317 | 125 | 127 | 70.0-128 | | | 1.77 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0325 | 0.0316 | 130 | 127 | 69.0-128 | J4 | | 2.67 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0273 | 0.0274 | 109 | 110 | 63.0-131 | | | 0.520 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0291 | 0.0298 | 117 | 119 | 74.0-123 | | | 2.31 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0285 | 0.0287 | 114 | 115 | 72.0-122 | | | 0.870 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0295 | 0.0302 | 118 | 121 | 75.0-126 | | | 2.47 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0317 | 0.0316 | 127 | 126 | 72.0-130 | | | 0.440 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0260 | 0.0253 | 104 | 101 | 80.0-121 | | | 2.85 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0276 | 0.0272 | 110 | 109 | 80.0-125 | | | 1.48 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0265 | 0.0259 | 106 | 104 | 75.0-129 | | | 2.16 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0279 | 0.0292 | 112 | 117 | 60.0-129 | | | 4.38 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0327 | 0.0323 | 131 | 129 | 62.0-133 | | | 1.50 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3244836-1 08/26/17 11:12 • (LCSD) R3244836-3 08/26/17 13:19

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0236 | 0.0238 | 94.2 | 95.0 | 77.0-120 | | | 0.850 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0172 | 0.0183 | 68.8 | 73.1 | 68.0-128 | | | 6.05 | 20 |
| 2-Hexanone | 0.125 | 0.145 | 0.123 | 116 | 98.1 | 61.0-143 | | | 16.4 | 20 |
| n-Hexane | 0.0250 | 0.0295 | 0.0296 | 118 | 119 | 57.0-125 | | | 0.570 | 20 |
| Iodomethane | 0.125 | 0.145 | 0.145 | 116 | 116 | 67.0-132 | | | 0.570 | 20 |
| Isopropylbenzene | 0.0250 | 0.0264 | 0.0277 | 106 | 111 | 75.0-120 | | | 4.84 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0240 | 0.0240 | 96.1 | 96.1 | 74.0-125 | | | 0.000 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.152 | 0.127 | 122 | 101 | 37.0-159 | | | 18.0 | 20 |
| Methylene Chloride | 0.0250 | 0.0244 | 0.0242 | 97.4 | 96.7 | 67.0-123 | | | 0.750 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.148 | 0.126 | 118 | 101 | 60.0-144 | | | 16.1 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0307 | 0.0286 | 123 | 114 | 66.0-125 | | | 7.04 | 20 |
| Naphthalene | 0.0250 | 0.0222 | 0.0202 | 89.0 | 80.8 | 64.0-125 | | | 9.58 | 20 |
| n-Propylbenzene | 0.0250 | 0.0282 | 0.0293 | 113 | 117 | 78.0-120 | | | 3.63 | 20 |
| Styrene | 0.0250 | 0.0262 | 0.0278 | 105 | 111 | 78.0-124 | | | 6.02 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0232 | 0.0230 | 93.0 | 92.0 | 74.0-124 | | | 1.11 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0296 | 0.0288 | 118 | 115 | 73.0-120 | | | 2.91 | 20 |
| Tetrachloroethene | 0.0250 | 0.0222 | 0.0222 | 88.7 | 88.8 | 70.0-127 | | | 0.0500 | 20 |
| Toluene | 0.0250 | 0.0229 | 0.0234 | 91.6 | 93.8 | 77.0-120 | | | 2.34 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0288 | 0.0295 | 115 | 118 | 64.0-135 | | | 2.63 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0188 | 0.0183 | 75.4 | 73.1 | 68.0-126 | | | 3.09 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0194 | 0.0199 | 77.7 | 79.6 | 70.0-127 | | | 2.47 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0292 | 0.0296 | 117 | 118 | 69.0-125 | | | 1.33 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0239 | 0.0227 | 95.5 | 90.9 | 78.0-120 | | | 4.88 | 20 |
| Trichloroethene | 0.0250 | 0.0263 | 0.0264 | 105 | 105 | 79.0-120 | | | 0.0800 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0279 | 0.0282 | 112 | 113 | 59.0-136 | | | 1.24 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0283 | 0.0262 | 113 | 105 | 73.0-124 | | | 7.41 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0248 | 0.0249 | 99.1 | 99.4 | 76.0-120 | | | 0.400 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0261 | 0.0266 | 104 | 106 | 75.0-120 | | | 2.15 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0255 | 0.0261 | 102 | 105 | 75.0-120 | | | 2.53 | 20 |
| Vinyl acetate | 0.125 | 0.181 | 0.173 | 145 | 139 | 58.0-156 | | | 4.19 | 20 |
| Vinyl chloride | 0.0250 | 0.0310 | 0.0313 | 124 | 125 | 63.0-134 | | | 0.940 | 20 |
| Xylenes, Total | 0.0750 | 0.0702 | 0.0712 | 93.6 | 94.9 | 77.0-120 | | | 1.41 | 20 |
| *(S) Toluene-d8* | | | | *96.0* | *97.4* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *115* | *112* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *104* | *108* | *64.0-132* | | | | |

## Abbreviations and Definitions

| | |
|---|---|
| SDG | Sample Delivery Group. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| RDL | Reported Detection Limit. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| RPD | Relative Percent Difference. |
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Rec. | Recovery. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

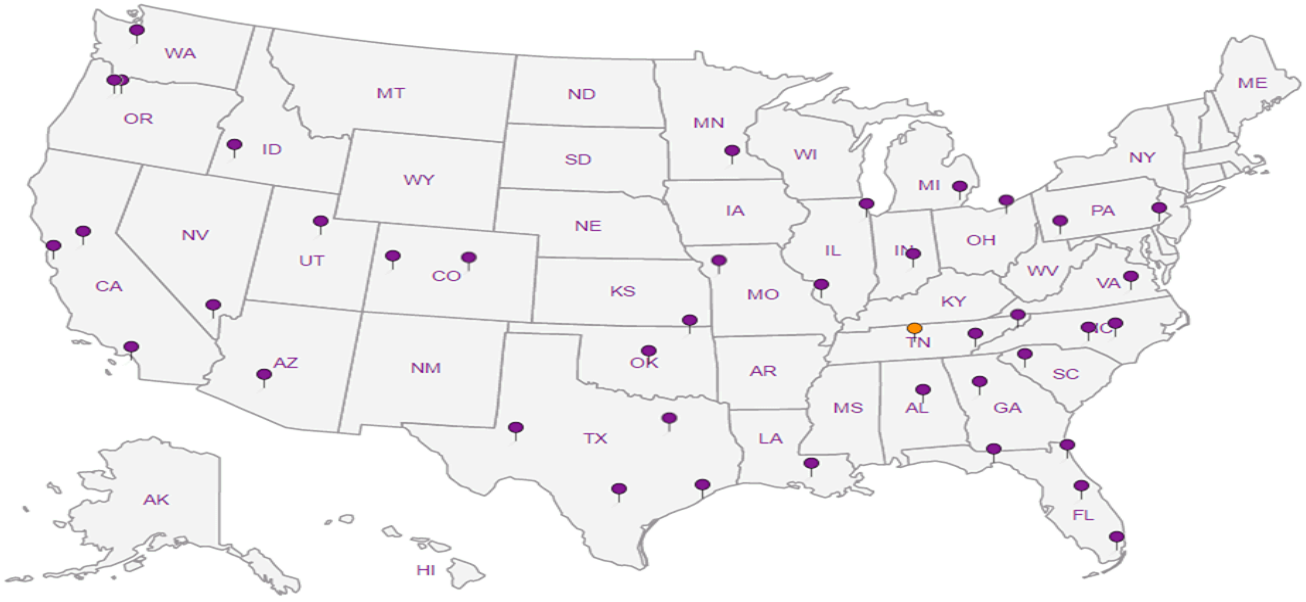
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~MW-132-50~~ | | GW | | | 1710 | 3 | | | | | X | | (SM) |
| MW- | | GW | | | | 3 | | | | | X | | |
| MW- | | GW | | | | 3 | | | | | X | | |
| MW- | | GW | | | | 3 | | | | | X | | |
| MW- | | GW | | | | 3 | | | | | X | | |
| MW-132-50 | GRAB | SS | 50 | 8/22/17 | 1710 | 5 | X | | X | X | | | -01 |
| MW-132-55 | ↓ | SS | 55 | 8/23/17 | 0810 | 5 | X | | X | X | | | -02 |
| MW-132-60 | ↓ | SS | 60 | ↓ | 0905 | 5 | X | | X | X | | | -03 |
| MW-132-70 | ↓ | SS | 70 | ↓ | 1035 | 5 | X | | X | X | | | -04 |
| MW-132-83 | ↓ | SS | 83 | ↓ | 1205 | 5 | X | | X | X | | | -05 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 747409210697

Chain of Custody Page ___ of ___

ESC LABS SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 931655

G003

Acctnum: PESENVSWA
Template: T126586
Prelogin: P613274
TSR: 110 - Brian Ford
PB: 8/10/17 MW

Shipped Via: FedEx Ground

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / (No) HCL / MeoH TBR |
|---|---|---|---|---|
| | 8/23/17 | 1340 | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 4.3 °C Bottles Received: 25 |
| | | | | If preservation required by Login: Date/Time |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 8/24/17 Time: 0845 |
| | | | | Hold: Condition: NCF / (OK) |

# MEMORANDUM

**TO:** Project File **DATE:** September 19, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** August 22-23, 2017 – Soil Samples

**LAB:** ESC Lab ID L931655

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Five (5) soil samples were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on August 22-23, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L931655. The quarterly monitoring round occurred August and September of 2017. Associated sample data are reported in X# ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L934130, L934673, L934916, and). The quality assurance review of the sample data associated with SDG L931655 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on August 22-23, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 4.3 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of 7 days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C for soils:* Continuing calibration verification (CCV) issues were noted by ESC for carbon disulfide associated with analytical batch WG1013822 (analyzed on August 26, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (J).**

## Method Blank Results

*USEPA Method 8260C:*
A laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs).

*NWTPH-Gx Method:*
A laboratory method blank was included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blank at or above the RDL.

*Total Solids by SM 2540 G 2011:*

Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (% solids) were not detected in the method blanks.

## Trip Blank Results

*USEPA Method 8260C and NWTPH-Gx:*
A trip blank was not collected.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate were not collected.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on client samples MW-132-50 and MW-132-55. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds (VOCs) are within the laboratory control criteria for soils with the following exceptions:

- LCS (Batch WG1013822) percent recovery for compound 1,2-dichloroethane is slightly above laboratory criteria and qualified by the laboratory (J4). No action was taken as this compound is not detected in the associated samples.

- LCSD (Batch WG1013822) percent recovery for compounds bromobenzene and 4-chlorotoluene are slightly above laboratory criteria and qualified by the laboratory (J4). No action was taken as this compound is not detected in the associated samples.

*NWTPH-Gx Method:*
LCS/LCSD was analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

**Matrix Spike/Matrix Spike Duplicates**

*USEPA Method 8260C:*
MS/MSD analyses were not performed. Refer to LCS/LCSD results for accuracy and precision data.

*NWTPH-Gx Method:*
MS/MSD analyses were not performed. Refer to LCS/LCSD results for accuracy and precision data.

**Other Quality Control Issues**

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- ESC notes indicate that no stir bars remain for VOC and gasoline analysis on samples MW-132-70 and MW-132-83 (Analytical Batch WG1013822). ESC was unable to analyze samples submitted for gasoline and VOCs at a lower dilution factor due to an insufficient number of vials preserved with sodium bisulfite. No action was taken other than to note this. ESC is taking steps to minimize this occurrence by providing additional sodium bisulfite vials per sample.

**Compound Identification and Quantitation Limits**

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.4 | | 1 | 08/29/2017 12:31 | WG1014628 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.97 | | 0.0367 | 0.108 | 1 | 08/28/2017 16:46 | WG1014268 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.0* | | | *77.0-120* | | *08/28/2017 16:46* | WG1014268 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0231 J | J | 0.0108 | 0.0541 | 1 | 08/26/2017 17:07 | WG1013822 |
| Acrylonitrile | U | | 0.00194 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Benzene | U | | 0.000292 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Bromobenzene | U | J4 | 0.000307 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Bromochloromethane | U | | 0.000422 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| Bromoform | U | | 0.000459 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Bromomethane | U | | 0.00145 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| n-Butylbenzene | U | | 0.000279 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| sec-Butylbenzene | U | | 0.000217 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Carbon disulfide | 0.00341 J | J0 | 0.000239 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Carbon tetrachloride | U | | 0.000355 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Chlorobenzene | U | | 0.000229 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Chlorodibromomethane | U | | 0.000404 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Chloroethane | U | | 0.00102 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| Chloroform | U | | 0.000248 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| Chloromethane | U | | 0.000406 | 0.00270 | 1 | 08/26/2017 17:07 | WG1013822 |
| 2-Chlorotoluene | U | | 0.000326 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 4-Chlorotoluene | U | J4 | 0.000260 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2-Dibromoethane | U | | 0.000371 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Dibromomethane | U | | 0.000413 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2-Dichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,3-Dichlorobenzene | U | | 0.000259 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,4-Dichlorobenzene | U | | 0.000244 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Dichlorodifluoromethane | U | | 0.000771 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1-Dichloroethane | U | | 0.000215 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2-Dichloroethane | U | J4 | 0.000287 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1-Dichloroethene | 0.00220 | | 0.000328 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| cis-1,2-Dichloroethene | 4.62 | | 0.00636 | 0.0270 | 25 | 08/28/2017 18:38 | WG1013822 |
| trans-1,2-Dichloroethene | 0.0405 | | 0.000286 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2-Dichloropropane | U | | 0.000387 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1-Dichloropropene | U | | 0.000343 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| cis-1,3-Dichloropropene | U | | 0.000283 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| trans-1,3-Dichloropropene | U | | 0.000289 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| trans-1,4-Dichloro-2-butene | U | | 0.000842 | 0.00270 | 1 | 08/26/2017 17:07 | WG1013822 |
| 2,2-Dichloropropane | U | | 0.000302 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Di-isopropyl ether | U | | 0.000268 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Ethylbenzene | U | | 0.000321 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Hexachloro-1,3-butadiene | U | | 0.000370 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |
| n-Hexane | 0.00271 J | J | 0.000314 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |

JC 9/19/17

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00274 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Isopropylbenzene | U | | 0.000263 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 2-Butanone (MEK) | U | | 0.00506 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Methylene Chloride | U | | 0.00108 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00203 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Methyl tert-butyl ether | U | | 0.000229 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Naphthalene | U | | 0.00108 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Styrene | U | | 0.000253 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000286 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000395 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000395 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Tetrachloroethene | 0.109 | | 0.000299 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Toluene | U | | 0.000470 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2,3-Trichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2,4-Trichlorobenzene | U | | 0.000420 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1,1-Trichloroethane | U | | 0.000309 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,1,2-Trichloroethane | U | | 0.000300 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Trichloroethene | 0.153 | | 0.000302 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Trichlorofluoromethane | U | | 0.000413 | 0.00541 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2,3-Trichloropropane | U | | 0.000802 | 0.00270 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2,4-Trimethylbenzene | U | | 0.000228 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,2,3-Trimethylbenzene | U | | 0.000310 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Vinyl acetate | U | | 0.00259 | 0.0108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Vinyl chloride | 0.00219 | | 0.000315 | 0.00108 | 1 | 08/26/2017 17:07 | WG1013822 |
| Xylenes, Total | U | | 0.000755 | 0.00325 | 1 | 08/26/2017 17:07 | WG1013822 |
| *(S) Toluene-d8* | *91.8* | | | *80.0-120* | | *08/26/2017 17:07* | WG1013822 |
| *(S) Toluene-d8* | *99.0* | | | *80.0-120* | | *08/28/2017 18:38* | WG1013822 |
| *(S) Dibromofluoromethane* | *97.5* | | | *74.0-131* | | *08/28/2017 18:38* | WG1013822 |
| *(S) Dibromofluoromethane* | *117* | | | *74.0-131* | | *08/26/2017 17:07* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/26/2017 17:07* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *98.5* | | | *64.0-132* | | *08/28/2017 18:38* | WG1013822 |

JC 9/19/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.0 | | 1 | 08/29/2017 12:56 | WG1014667 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 126 | | 0.975 | 2.87 | 25 | 08/30/2017 10:04 | WG1014268 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *08/30/2017 10:04* | WG1014268 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 1.15 | 5.75 | 100 | 08/26/2017 17:28 | WG1013822 |
| Acrylonitrile | U | | 0.206 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |
| Benzene | U | | 0.0310 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Bromobenzene | U | J4 | 0.0327 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Bromodichloromethane | U | | 0.0292 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Bromochloromethane | U | | 0.0448 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| Bromoform | U | | 0.0488 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Bromomethane | U | | 0.154 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| n-Butylbenzene | U | | 0.0297 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| sec-Butylbenzene | U | | 0.0231 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| tert-Butylbenzene | U | | 0.0237 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Carbon disulfide | U | | 0.0254 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Carbon tetrachloride | U | | 0.0377 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Chlorobenzene | U | | 0.0244 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Chlorodibromomethane | U | | 0.0429 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Chloroethane | U | | 0.109 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| Chloroform | U | | 0.0263 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| Chloromethane | U | | 0.0431 | 0.287 | 100 | 08/26/2017 17:28 | WG1013822 |
| 2-Chlorotoluene | U | | 0.0346 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 4-Chlorotoluene | U | J4 | 0.0276 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.121 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2-Dibromoethane | U | | 0.0394 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Dibromomethane | U | | 0.0439 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2-Dichlorobenzene | U | | 0.0351 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,3-Dichlorobenzene | U | | 0.0275 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,4-Dichlorobenzene | U | | 0.0260 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Dichlorodifluoromethane | U | | 0.0820 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1-Dichloroethane | U | | 0.0229 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2-Dichloroethane | U | J4 | 0.0305 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1-Dichloroethene | U | | 0.0348 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| cis-1,2-Dichloroethene | 2.22 | | 0.0270 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| trans-1,2-Dichloroethene | 0.0725 J | J | 0.0304 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2-Dichloropropane | U | | 0.0412 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1-Dichloropropene | U | | 0.0365 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,3-Dichloropropane | U | | 0.0238 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| cis-1,3-Dichloropropene | U | | 0.0301 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| trans-1,3-Dichloropropene | U | | 0.0307 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| trans-1,4-Dichloro-2-butene | U | | 0.0895 | 0.287 | 100 | 08/26/2017 17:28 | WG1013822 |
| 2,2-Dichloropropane | U | | 0.0321 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Di-isopropyl ether | U | | 0.0285 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Ethylbenzene | U | | 0.0342 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Hexachloro-1,3-butadiene | U | | 0.0393 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 2-Hexanone | U | | 0.158 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |
| n-Hexane | U | | 0.0333 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |

JC 9/19/17

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.291 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |
| Isopropylbenzene | U | | 0.0279 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| p-Isopropyltoluene | U | | 0.0235 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 2-Butanone (MEK) | U | | 0.538 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |
| Methylene Chloride | U | | 0.115 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.216 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |
| Methyl tert-butyl ether | 0.159 | | 0.0244 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Naphthalene | U | | 0.115 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| n-Propylbenzene | 0.0501 J | J | 0.0237 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Styrene | U | | 0.0269 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0304 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0420 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0420 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Tetrachloroethene | 385 | | 3.17 | 11.5 | 10000 | 08/28/2017 19:04 | WG1013822 |
| Toluene | U | | 0.0499 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2,3-Trichlorobenzene | U | | 0.0352 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2,4-Trichlorobenzene | U | | 0.0446 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1,1-Trichloroethane | U | | 0.0329 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,1,2-Trichloroethane | U | | 0.0319 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Trichloroethene | 9.63 | | 0.0321 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Trichlorofluoromethane | U | | 0.0439 | 0.575 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2,3-Trichloropropane | U | | 0.0852 | 0.287 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2,4-Trimethylbenzene | 0.212 | | 0.0243 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,2,3-Trimethylbenzene | 0.0533 J | J | 0.0330 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| 1,3,5-Trimethylbenzene | 0.0664 J | J | 0.0306 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Vinyl acetate | U | | 0.275 | 1.15 | 100 | 08/26/2017 17:28 | WG1013822 |
| Vinyl chloride | U | | 0.0335 | 0.115 | 100 | 08/26/2017 17:28 | WG1013822 |
| Xylenes, Total | U | | 0.0803 | 0.345 | 100 | 08/26/2017 17:28 | WG1013822 |
| *(S) Toluene-d8* | *95.7* | | | *80.0-120* | | *08/26/2017 17:28* | WG1013822 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *08/28/2017 19:04* | WG1013822 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *08/26/2017 17:28* | WG1013822 |
| *(S) Dibromofluoromethane* | *97.6* | | | *74.0-131* | | *08/28/2017 19:04* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *99.0* | | | *64.0-132* | | *08/28/2017 19:04* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/26/2017 17:28* | WG1013822 |

JC 9/19/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.9 | | 1 | 08/29/2017 12:56 | WG1014667 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.276 | | 0.0365 | 0.108 | 1 | 08/28/2017 17:08 | WG1014268 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.9* | | | *77.0-120* | | *08/28/2017 17:08* | WG1014268 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | 0.0149 J | J | 0.0108 | 0.0538 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Benzene | U | | 0.000291 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Bromobenzene | U | J4 | 0.000306 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Bromodichloromethane | U | | 0.000274 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Bromochloromethane | U | | 0.000420 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Bromoform | U | | 0.000457 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Bromomethane | U | | 0.00144 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 | |
| n-Butylbenzene | U | | 0.000278 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| sec-Butylbenzene | U | | 0.000216 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| tert-Butylbenzene | U | | 0.000222 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Carbon disulfide | 0.00175 J | J0 | 0.000238 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Carbon tetrachloride | U | | 0.000353 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Chlorobenzene | U | | 0.000228 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Chlorodibromomethane | U | | 0.000402 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Chloroethane | U | | 0.00102 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Chloroform | U | | 0.000247 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Chloromethane | U | | 0.000404 | 0.00269 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 2-Chlorotoluene | U | | 0.000324 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 4-Chlorotoluene | U | J4 | 0.000258 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 1,2-Dibromoethane | U | | 0.000369 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Dibromomethane | U | | 0.000411 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Dichlorodifluoromethane | U | | 0.000768 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 1,2-Dichloroethane | U | J4 | 0.000285 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 1,1-Dichloroethene | 0.00121 | | 0.000326 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| cis-1,2-Dichloroethene | 0.0871 | | 0.000253 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| trans-1,2-Dichloroethene | 0.000785 J | J | 0.000284 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 1,2-Dichloropropane | U | | 0.000386 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 1,1-Dichloropropene | U | | 0.000341 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 1,3-Dichloropropane | U | | 0.000223 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| cis-1,3-Dichloropropene | U | | 0.000282 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| trans-1,3-Dichloropropene | U | | 0.000288 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| trans-1,4-Dichloro-2-butene | U | | 0.000838 | 0.00269 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Di-isopropyl ether | U | | 0.000267 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Ethylbenzene | U | | 0.000320 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| Hexachloro-1,3-butadiene | U | | 0.000368 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 | |
| n-Hexane | 0.000678 J | J | 0.000312 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 | JC 9/19/17 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00272 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Isopropylbenzene | U | | 0.000262 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| p-Isopropyltoluene | U | | 0.000220 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 2-Butanone (MEK) | U | | 0.00504 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Methylene Chloride | U | | 0.00108 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Methyl tert-butyl ether | U | | 0.000228 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Naphthalene | U | | 0.00108 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| n-Propylbenzene | U | | 0.000222 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Styrene | U | | 0.000252 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000393 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000393 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Tetrachloroethene | 3.92 | | 0.00810 | 0.0293 | 27.25 | 08/28/2017 19:30 | WG1013822 |
| Toluene | U | | 0.000467 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2,3-Trichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2,4-Trichlorobenzene | U | | 0.000418 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,1,1-Trichloroethane | U | | 0.000308 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Trichloroethene | 4.60 | | 0.00818 | 0.0293 | 27.25 | 08/28/2017 19:30 | WG1013822 |
| Trichlorofluoromethane | U | | 0.000411 | 0.00538 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2,3-Trichloropropane | U | | 0.000798 | 0.00269 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,2,3-Trimethylbenzene | U | | 0.000309 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Vinyl acetate | U | | 0.00257 | 0.0108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Vinyl chloride | 0.000808 J | J | 0.000313 | 0.00108 | 1 | 08/26/2017 17:49 | WG1013822 |
| Xylenes, Total | U | | 0.000752 | 0.00323 | 1 | 08/26/2017 17:49 | WG1013822 |
| *(S) Toluene-d8* | *91.1* | | | *80.0-120* | | *08/28/2017 19:30* | WG1013822 |
| *(S) Toluene-d8* | *92.5* | | | *80.0-120* | | *08/26/2017 17:49* | WG1013822 |
| *(S) Dibromofluoromethane* | *117* | | | *74.0-131* | | *08/26/2017 17:49* | WG1013822 |
| *(S) Dibromofluoromethane* | *96.7* | | | *74.0-131* | | *08/28/2017 19:30* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/26/2017 17:49* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *98.4* | | | *64.0-132* | | *08/28/2017 19:30* | WG1013822 |

JC 9/19/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.0 | | 1 | 08/29/2017 12:56 | WG1014667 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 1.03 | 3.05 | 25 | 08/30/2017 02:02 | WG1014268 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* | | *08/30/2017 02:02* | WG1014268 |

**Sample Narrative:**

L931655-04 WG1014268: No stir bars remain for analysis.

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0182 J | J | 0.0122 | 0.0610 | 1 | 08/26/2017 18:10 | WG1013822 |
| Acrylonitrile | U | | 0.00218 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Benzene | U | | 0.000329 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Bromobenzene | U | J4 | 0.000346 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Bromodichloromethane | U | | 0.000310 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Bromochloromethane | U | | 0.000475 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| Bromoform | U | | 0.000517 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Bromomethane | U | | 0.00163 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| n-Butylbenzene | U | | 0.000315 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| sec-Butylbenzene | U | | 0.000245 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| tert-Butylbenzene | U | | 0.000251 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Carbon disulfide | 0.000464 J | J | 0.000269 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Carbon tetrachloride | U | | 0.000400 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Chlorobenzene | U | | 0.000258 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Chlorodibromomethane | U | | 0.000455 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Chloroethane | U | | 0.00115 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| Chloroform | U | | 0.000279 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| Chloromethane | U | | 0.000457 | 0.00305 | 1 | 08/26/2017 18:10 | WG1013822 |
| 2-Chlorotoluene | U | | 0.000367 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 4-Chlorotoluene | U | J4 | 0.000293 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00128 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2-Dibromoethane | U | | 0.000418 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Dibromomethane | U | | 0.000466 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2-Dichlorobenzene | U | | 0.000372 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,3-Dichlorobenzene | U | | 0.000291 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,4-Dichlorobenzene | U | | 0.000276 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Dichlorodifluoromethane | U | | 0.000869 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1-Dichloroethane | U | | 0.000243 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2-Dichloroethane | U | J4 | 0.000323 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1-Dichloroethene | U | | 0.000369 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| cis-1,2-Dichloroethene | 0.000586 J | J | 0.000286 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| trans-1,2-Dichloroethene | U | | 0.000322 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2-Dichloropropane | U | | 0.000436 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1-Dichloropropene | U | | 0.000386 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,3-Dichloropropane | U | | 0.000252 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| cis-1,3-Dichloropropene | U | | 0.000319 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| trans-1,3-Dichloropropene | U | | 0.000325 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| trans-1,4-Dichloro-2-butene | U | | 0.000948 | 0.00305 | 1 | 08/26/2017 18:10 | WG1013822 |
| 2,2-Dichloropropane | U | | 0.000340 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Di-isopropyl ether | U | | 0.000302 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Ethylbenzene | U | | 0.000362 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |

JC 9/19/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | U | | 0.000417 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 2-Hexanone | U | | 0.00167 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| n-Hexane | 0.000499 J | J | 0.000354 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Iodomethane | U | | 0.00308 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Isopropylbenzene | U | | 0.000296 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| p-Isopropyltoluene | U | | 0.000249 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 2-Butanone (MEK) | U | | 0.00571 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Methylene Chloride | U | | 0.00122 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00229 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Methyl tert-butyl ether | U | | 0.000258 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Naphthalene | U | | 0.00122 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| n-Propylbenzene | U | | 0.000251 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Styrene | U | | 0.000285 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000322 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000445 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000445 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Tetrachloroethene | 0.00905 J | J | 0.00841 | 0.0305 | 25 | 08/28/2017 20:21 | WG1013822 |
| Toluene | U | | 0.000529 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2,3-Trichlorobenzene | U | | 0.000373 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2,4-Trichlorobenzene | U | | 0.000473 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1,1-Trichloroethane | U | | 0.000349 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,1,2-Trichloroethane | U | | 0.000338 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Trichloroethene | U | | 0.00851 | 0.0305 | 25 | 08/28/2017 20:21 | WG1013822 |
| Trichlorofluoromethane | U | | 0.000466 | 0.00610 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2,3-Trichloropropane | U | | 0.000903 | 0.00305 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2,4-Trimethylbenzene | U | | 0.000257 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,2,3-Trimethylbenzene | U | | 0.000350 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| 1,3,5-Trimethylbenzene | U | | 0.000324 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Vinyl acetate | U | | 0.00291 | 0.0122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Vinyl chloride | U | | 0.000355 | 0.00122 | 1 | 08/26/2017 18:10 | WG1013822 |
| Xylenes, Total | U | | 0.000851 | 0.00366 | 1 | 08/26/2017 18:10 | WG1013822 |
| *(S) Toluene-d8* | *91.0* | | | *80.0-120* | | *08/26/2017 18:10* | WG1013822 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/28/2017 20:21* | WG1013822 |
| *(S) Dibromofluoromethane* | *96.8* | | | *74.0-131* | | *08/28/2017 20:21* | WG1013822 |
| *(S) Dibromofluoromethane* | *118* | | | *74.0-131* | | *08/26/2017 18:10* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *95.3* | | | *64.0-132* | | *08/28/2017 20:21* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *08/26/2017 18:10* | WG1013822 |

**Sample Narrative:**

L931655-04 WG1013822: No stir bars remain for analysis.

JC 9/19/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.7 | | 1 | 08/29/2017 12:56 | WG1014667 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.925 | 2.73 | 25 | 08/30/2017 02:24 | WG1014268 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* | | *08/30/2017 02:24* | WG1014268 |

**Sample Narrative:**

L931655-05 WG1014268: No stir bars remain for analysis.

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0262 J | J | 0.0109 | 0.0545 | 1 | 08/26/2017 18:31 | WG1013822 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Benzene | 0.000302 J | J | 0.000295 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Bromobenzene | U | J4 | 0.000310 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| Bromoform | U | | 0.000463 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Bromomethane | U | | 0.00146 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Carbon disulfide | 0.00271 | | 0.000241 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| Chloroform | U | | 0.000250 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| Chloromethane | U | | 0.000409 | 0.00273 | 1 | 08/26/2017 18:31 | WG1013822 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 4-Chlorotoluene | U | J4 | 0.000262 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,4-Dichlorobenzene | U | | 0.000247 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Dichlorodifluoromethane | U | | 0.000778 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2-Dichloroethane | U | J4 | 0.000289 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1-Dichloroethene | U | | 0.000331 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| cis-1,2-Dichloroethene | 0.000283 J | J | 0.000256 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2-Dichloropropane | U | | 0.000391 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| trans-1,4-Dichloro-2-butene | U | | 0.000849 | 0.00273 | 1 | 08/26/2017 18:31 | WG1013822 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Di-isopropyl ether | U | | 0.000271 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |

JC 9/19/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| n-Hexane | U | | 0.000316 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000398 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Tetrachloroethene | U | | 0.00753 | 0.0273 | 25 | 08/28/2017 20:47 | WG1013822 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Trichloroethene | U | | 0.000304 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Trichlorofluoromethane | U | | 0.000417 | 0.00545 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2,3-Trichloropropane | U | | 0.000808 | 0.00273 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Vinyl chloride | U | | 0.000317 | 0.00109 | 1 | 08/26/2017 18:31 | WG1013822 |
| Xylenes, Total | U | | 0.000761 | 0.00327 | 1 | 08/26/2017 18:31 | WG1013822 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *08/28/2017 20:47* | WG1013822 |
| *(S) Toluene-d8* | *90.2* | | | *80.0-120* | | *08/26/2017 18:31* | WG1013822 |
| *(S) Dibromofluoromethane* | *119* | | | *74.0-131* | | *08/26/2017 18:31* | WG1013822 |
| *(S) Dibromofluoromethane* | *97.0* | | | *74.0-131* | | *08/28/2017 20:47* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/26/2017 18:31* | WG1013822 |
| *(S) 4-Bromofluorobenzene* | *98.0* | | | *64.0-132* | | *08/28/2017 20:47* | WG1013822 |

Sample Narrative:

L931655-05 WG1013822: No stir bars remain for analysis.

JC 9/19/17

# ANALYTICAL REPORT

September 01, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L932059 |
| Samples Received: | 08/25/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Jason Romer
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## MW-135-16 L932059-01 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/24/17 08:05 | Received date/time: 08/25/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015517 | 1 | 08/31/17 11:49 | 08/31/17 12:03 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014739 | 250 | 08/24/17 08:05 | 09/01/17 05:01 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 100 | 08/24/17 08:05 | 08/29/17 14:46 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 20000 | 08/24/17 08:05 | 08/29/17 16:27 | JAH |

## MW-135-20 L932059-02 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/24/17 08:30 | Received date/time: 08/25/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015517 | 1 | 08/31/17 11:49 | 08/31/17 12:03 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014739 | 1 | 08/24/17 08:30 | 08/29/17 15:31 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 25 | 08/24/17 08:30 | 08/29/17 15:11 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 25 | 08/24/17 08:30 | 08/29/17 16:53 | JAH |

## MW-135-30 L932059-03 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/24/17 08:55 | Received date/time: 08/25/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015517 | 1 | 08/31/17 11:49 | 08/31/17 12:03 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014739 | 1 | 08/24/17 08:55 | 08/29/17 15:53 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 1 | 08/24/17 08:55 | 08/28/17 16:44 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 10000 | 08/24/17 08:55 | 08/29/17 16:17 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 50 | 08/24/17 08:55 | 08/29/17 13:20 | JAH |

## MW-135-36 L932059-04 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/24/17 09:00 | Received date/time: 08/25/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015517 | 1 | 08/31/17 11:49 | 08/31/17 12:03 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014739 | 1 | 08/24/17 09:00 | 08/29/17 16:15 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 1 | 08/24/17 09:00 | 08/28/17 17:04 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 1000 | 08/24/17 09:00 | 08/29/17 16:56 | BMB |

## MW-135-40 L932059-05 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/24/17 09:40 | Received date/time: 08/25/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015517 | 1 | 08/31/17 11:49 | 08/31/17 12:03 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014739 | 1 | 08/24/17 09:40 | 08/29/17 16:37 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 1 | 08/24/17 09:40 | 08/28/17 17:23 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 52.5 | 08/24/17 09:40 | 08/29/17 14:39 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 525 | 08/24/17 09:40 | 08/29/17 17:16 | BMB |

## MW-135-45 L932059-06 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/24/17 09:55 | Received date/time: 08/25/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015517 | 1 | 08/31/17 11:49 | 08/31/17 12:03 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014739 | 1.01 | 08/24/17 09:55 | 08/29/17 17:00 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 1 | 08/24/17 09:55 | 08/28/17 17:43 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 71 | 08/24/17 09:55 | 08/29/17 14:58 | ACG |

## MW-135-45 L932059-06 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/24/17 09:55 | Received date/time: 08/25/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 7100 | 08/24/17 09:55 | 08/29/17 17:35 | BMB |

## MW-135-55 L932059-07 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/24/17 10:50 | Received date/time: 08/25/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015517 | 1 | 08/31/17 11:49 | 08/31/17 12:03 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014739 | 1 | 08/24/17 10:50 | 08/29/17 17:22 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 1 | 08/24/17 10:50 | 08/28/17 18:03 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 29.75 | 08/24/17 10:50 | 08/29/17 15:18 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 595 | 08/24/17 10:50 | 08/29/17 17:55 | BMB |

## B-901-50 L932059-08 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/24/17 11:20 | Received date/time: 08/25/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015137 | 1 | 08/31/17 10:19 | 08/31/17 10:33 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 1 | 08/24/17 11:20 | 08/28/17 18:22 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 1 | 08/24/17 11:20 | 08/29/17 15:38 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 25 | 08/24/17 11:20 | 08/29/17 18:14 | BMB |

## B-208-20 L932059-09 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/24/17 11:30 | Received date/time: 08/25/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015141 | 1 | 08/30/17 16:27 | 08/30/17 16:41 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 1 | 08/24/17 11:30 | 08/28/17 18:42 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 1 | 08/24/17 11:30 | 08/29/17 15:57 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 25 | 08/24/17 11:30 | 08/29/17 18:34 | BMB |

## B-208-35 L932059-10 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/24/17 12:05 | Received date/time: 08/25/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015141 | 1 | 08/30/17 16:27 | 08/30/17 16:41 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014254 | 1 | 08/24/17 12:05 | 08/28/17 19:01 | LRL |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.0 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 641 | | 10.3 | 30.5 | 250 | 09/01/2017 05:01 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.5* | | | *77.0-120* | | *09/01/2017 05:01* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 1.22 | 6.10 | 100 | 08/29/2017 14:46 | WG1014254 |
| Acrylonitrile | U | | 0.218 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |
| Benzene | U | | 0.0329 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Bromobenzene | U | | 0.0346 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Bromodichloromethane | U | | 0.0310 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Bromochloromethane | U | | 0.0476 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| Bromoform | U | | 0.0517 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Bromomethane | U | | 0.163 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| n-Butylbenzene | 0.339 | | 0.0315 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| sec-Butylbenzene | 0.167 | | 0.0245 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| tert-Butylbenzene | 0.0271 | J | 0.0251 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Carbon disulfide | U | | 0.0270 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Carbon tetrachloride | U | | 0.0400 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Chlorobenzene | U | | 0.0259 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Chlorodibromomethane | U | | 0.0455 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Chloroethane | U | | 0.115 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| Chloroform | U | | 0.0279 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| Chloromethane | U | | 0.0457 | 0.305 | 100 | 08/29/2017 14:46 | WG1014254 |
| 2-Chlorotoluene | U | | 0.0367 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 4-Chlorotoluene | U | | 0.0293 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.128 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.0418 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Dibromomethane | U | | 0.0466 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.0372 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.0292 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.0276 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.0870 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.0243 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.0323 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1-Dichloroethene | 1.04 | | 0.0370 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| cis-1,2-Dichloroethene | 329 | | 5.73 | 24.4 | 20000 | 08/29/2017 16:27 | WG1014254 |
| trans-1,2-Dichloroethene | 0.700 | | 0.0322 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.0437 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.0387 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.0253 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.0320 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.0326 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.0949 | 0.305 | 100 | 08/29/2017 14:46 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.0340 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Di-isopropyl ether | U | | 0.0303 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Ethylbenzene | 0.0750 | J | 0.0362 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.0417 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 2-Hexanone | U | | 0.167 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |
| n-Hexane | U | | 0.0354 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.309 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |
| Isopropylbenzene | 0.0628 | J | 0.0296 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| p-Isopropyltoluene | 0.681 | | 0.0249 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.571 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |
| Methylene Chloride | U | | 0.122 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.229 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |
| Methyl tert-butyl ether | U | | 0.0259 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Naphthalene | 0.543 | J | 0.122 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| n-Propylbenzene | 0.170 | | 0.0251 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Styrene | U | | 0.0285 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0322 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0445 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0445 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Tetrachloroethene | 933 | | 6.73 | 24.4 | 20000 | 08/29/2017 16:27 | WG1014254 |
| Toluene | 0.166 | J | 0.0529 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.0373 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.0473 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.0349 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.0338 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Trichloroethene | 113 | | 6.81 | 24.4 | 20000 | 08/29/2017 16:27 | WG1014254 |
| Trichlorofluoromethane | U | | 0.0466 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.0904 | 0.305 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2,4-Trimethylbenzene | 0.483 | | 0.0257 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2,3-Trimethylbenzene | 0.257 | | 0.0350 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,3,5-Trimethylbenzene | 0.159 | | 0.0324 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Vinyl acetate | U | | 0.292 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |
| Vinyl chloride | 17.0 | | 0.0355 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Xylenes, Total | 0.331 | J | 0.0851 | 0.366 | 100 | 08/29/2017 14:46 | WG1014254 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *08/29/2017 14:46* | WG1014254 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *08/29/2017 16:27* | WG1014254 |
| *(S) Dibromofluoromethane* | *99.6* | | | *74.0-131* | | *08/29/2017 14:46* | WG1014254 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *08/29/2017 16:27* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/29/2017 14:46* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *99.8* | | | *64.0-132* | | *08/29/2017 16:27* | WG1014254 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.8 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.277 | | 0.0386 | 0.114 | 1 | 08/29/2017 15:31 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.7* | | | *77.0-120* | | *08/29/2017 15:31* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.285 | 1.42 | 25 | 08/29/2017 15:11 | WG1014254 |
| Acrylonitrile | U | | 0.0510 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Benzene | U | | 0.00769 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Bromobenzene | U | | 0.00809 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Bromodichloromethane | U | | 0.00723 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Bromochloromethane | U | | 0.0111 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| Bromoform | U | | 0.0121 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Bromomethane | U | | 0.0382 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| n-Butylbenzene | U | | 0.00735 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| sec-Butylbenzene | U | | 0.00572 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| tert-Butylbenzene | U | | 0.00587 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Carbon disulfide | U | | 0.00629 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Carbon tetrachloride | U | | 0.00934 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Chlorobenzene | U | | 0.00604 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Chlorodibromomethane | U | | 0.0106 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Chloroethane | U | | 0.0269 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| Chloroform | U | | 0.00651 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| Chloromethane | U | | 0.0107 | 0.0712 | 25 | 08/29/2017 15:11 | WG1014254 |
| 2-Chlorotoluene | U | | 0.00857 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 4-Chlorotoluene | U | | 0.00683 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0298 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.00977 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Dibromomethane | U | | 0.0109 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.00868 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.00681 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.00644 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.0203 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.00567 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.00754 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1-Dichloroethene | U | | 0.00863 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| cis-1,2-Dichloroethene | 0.408 | | 0.00670 | 0.0285 | 25 | 08/29/2017 16:53 | WG1014254 |
| trans-1,2-Dichloroethene | U | | 0.00752 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.0102 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.00902 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.00590 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.00746 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.00761 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.0221 | 0.0712 | 25 | 08/29/2017 15:11 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.00795 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Di-isopropyl ether | U | | 0.00706 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Ethylbenzene | U | | 0.00845 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.00974 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 2-Hexanone | U | | 0.0390 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |
| n-Hexane | U | | 0.00826 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0720 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Isopropylbenzene | U | | 0.00692 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| p-Isopropyltoluene | U | | 0.00581 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.133 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Methylene Chloride | U | | 0.0285 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0535 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Methyl tert-butyl ether | U | | 0.00604 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Naphthalene | U | | 0.0285 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| n-Propylbenzene | U | | 0.00587 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Styrene | U | | 0.00666 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00752 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0104 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0104 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Tetrachloroethene | 1.73 | | 0.00786 | 0.0285 | 25 | 08/29/2017 16:53 | WG1014254 |
| Toluene | U | | 0.0123 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.00871 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.0110 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.00814 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.00788 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Trichloroethene | 0.461 | | 0.00795 | 0.0285 | 25 | 08/29/2017 16:53 | WG1014254 |
| Trichlorofluoromethane | U | | 0.0109 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.0211 | 0.0712 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2,4-Trimethylbenzene | U | | 0.00601 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.00818 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.00757 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Vinyl acetate | U | | 0.0681 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Vinyl chloride | 0.0241 | J | 0.00829 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Xylenes, Total | U | | 0.0198 | 0.0854 | 25 | 08/29/2017 15:11 | WG1014254 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/29/2017 16:53* | WG1014254 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *08/29/2017 15:11* | WG1014254 |
| *(S) Dibromofluoromethane* | *98.5* | | | *74.0-131* | | *08/29/2017 15:11* | WG1014254 |
| *(S) Dibromofluoromethane* | *97.0* | | | *74.0-131* | | *08/29/2017 16:53* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *99.2* | | | *64.0-132* | | *08/29/2017 16:53* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *95.1* | | | *64.0-132* | | *08/29/2017 15:11* | WG1014254 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.2 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 10.4 | | 0.0360 | 0.106 | 1 | 08/29/2017 15:53 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.1* | | | *77.0-120* | | *08/29/2017 15:53* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0148 | J J0 | 0.0106 | 0.0531 | 1 | 08/28/2017 16:44 | WG1014254 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Benzene | U | | 0.000287 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Bromobenzene | U | | 0.000302 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Bromodichloromethane | U | | 0.000270 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Bromochloromethane | U | | 0.000414 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| Bromoform | U | | 0.000450 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Bromomethane | U | | 0.00142 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| n-Butylbenzene | 0.000805 | J | 0.000274 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| sec-Butylbenzene | 0.000496 | J | 0.000213 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| tert-Butylbenzene | 0.000237 | J | 0.000219 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Carbon disulfide | 0.00300 | | 0.000235 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Carbon tetrachloride | U | | 0.000348 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Chlorobenzene | U | | 0.000225 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Chlorodibromomethane | U | | 0.000396 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Chloroethane | U | | 0.00100 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| Chloroform | U | | 0.000243 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| Chloromethane | U | | 0.000398 | 0.00266 | 1 | 08/28/2017 16:44 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000320 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000364 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Dibromomethane | U | | 0.000406 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000324 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000254 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000240 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000757 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000211 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000281 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1-Dichloroethene | 0.00227 | | 0.000322 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| cis-1,2-Dichloroethene | 1.98 | | 0.0125 | 0.0531 | 50 | 08/29/2017 13:20 | WG1014254 |
| trans-1,2-Dichloroethene | 0.00363 | | 0.000280 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000380 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000337 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000278 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000284 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000826 | 0.00266 | 1 | 08/28/2017 16:44 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000296 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Di-isopropyl ether | U | | 0.000263 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Ethylbenzene | U | | 0.000315 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000363 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 2-Hexanone | U | | 0.00146 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |
| n-Hexane | U | | 0.000308 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00269 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Isopropylbenzene | 0.000278 | J | 0.000258 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| p-Isopropyltoluene | 0.00354 | | 0.000217 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00497 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Methylene Chloride | U | | 0.00106 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Methyl tert-butyl ether | U | | 0.000225 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Naphthalene | 0.00253 | J | 0.00106 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| n-Propylbenzene | 0.000769 | J | 0.000219 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Styrene | U | | 0.000249 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000280 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000388 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000388 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Tetrachloroethene | 109 | | 2.93 | 10.6 | 10000 | 08/29/2017 16:17 | WG1014254 |
| Toluene | 0.00159 | J | 0.000461 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000412 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000304 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000294 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Trichloroethene | 2.90 | | 0.0149 | 0.0531 | 50 | 08/29/2017 13:20 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000406 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000787 | 0.00266 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2,4-Trimethylbenzene | 0.00350 | | 0.000224 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2,3-Trimethylbenzene | 0.00146 | | 0.000305 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,3,5-Trimethylbenzene | 0.00114 | | 0.000283 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Vinyl acetate | U | | 0.00254 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Vinyl chloride | 0.0430 | | 0.000309 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Xylenes, Total | 0.00135 | J | 0.000741 | 0.00319 | 1 | 08/28/2017 16:44 | WG1014254 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/28/2017 16:44* | WG1014254 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/29/2017 13:20* | WG1014254 |
| *(S) Toluene-d8* | *100* | | | *80.0-120* | | *08/29/2017 16:17* | WG1014254 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/28/2017 16:44* | WG1014254 |
| *(S) Dibromofluoromethane* | *99.1* | | | *74.0-131* | | *08/29/2017 13:20* | WG1014254 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *08/29/2017 16:17* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/29/2017 16:17* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *64.0-132* | | *08/29/2017 13:20* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *112* | | | *64.0-132* | | *08/28/2017 16:44* | WG1014254 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.7 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.733 | | 0.0396 | 0.117 | 1 | 08/29/2017 16:15 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.4* | | | *77.0-120* | | *08/29/2017 16:15* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0117 | 0.0584 | 1 | 08/28/2017 17:04 | WG1014254 |
| Acrylonitrile | U | | 0.00209 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Benzene | U | | 0.000315 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Bromobenzene | U | | 0.000332 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Bromodichloromethane | U | | 0.000297 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Bromochloromethane | U | | 0.000455 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| Bromoform | U | | 0.000495 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Bromomethane | U | | 0.00156 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| n-Butylbenzene | U | | 0.000301 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| sec-Butylbenzene | U | | 0.000235 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| tert-Butylbenzene | U | | 0.000241 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Carbon disulfide | U | | 0.000258 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Carbon tetrachloride | U | | 0.000383 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Chlorobenzene | U | | 0.000248 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Chlorodibromomethane | U | | 0.000435 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Chloroethane | U | | 0.00110 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| Chloroform | U | | 0.000267 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| Chloromethane | U | | 0.000438 | 0.00292 | 1 | 08/28/2017 17:04 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000351 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000280 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00123 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000400 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Dibromomethane | U | | 0.000446 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000356 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000279 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000264 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000832 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000232 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000309 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1-Dichloroethene | 0.000661 | J | 0.000354 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| cis-1,2-Dichloroethene | 0.154 | | 0.000274 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| trans-1,2-Dichloroethene | 0.000907 | J | 0.000308 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000418 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000370 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000242 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000306 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000312 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000908 | 0.00292 | 1 | 08/28/2017 17:04 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000326 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Di-isopropyl ether | U | | 0.000290 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Ethylbenzene | U | | 0.000347 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000399 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 2-Hexanone | U | | 0.00160 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |
| n-Hexane | U | | 0.000339 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00295 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Isopropylbenzene | U | | 0.000284 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000238 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00546 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Methylene Chloride | U | | 0.00117 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00219 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Methyl tert-butyl ether | U | | 0.000248 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Naphthalene | U | | 0.00117 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| n-Propylbenzene | U | | 0.000241 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Styrene | U | | 0.000273 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000308 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000426 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000426 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Tetrachloroethene | 20.1 | | 0.322 | 1.17 | 1000 | 08/29/2017 16:56 | WG1014254 |
| Toluene | U | | 0.000507 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000357 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000453 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000334 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000323 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Trichloroethene | 0.0571 | | 0.000326 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000446 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000865 | 0.00292 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2,4-Trimethylbenzene | 0.000439 | J | 0.000246 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000335 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000311 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Vinyl acetate | U | | 0.00279 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Vinyl chloride | 0.00962 | | 0.000340 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Xylenes, Total | U | | 0.000815 | 0.00350 | 1 | 08/28/2017 17:04 | WG1014254 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/29/2017 16:56* | WG1014254 |
| *(S) Toluene-d8* | *98.2* | | | *80.0-120* | | *08/28/2017 17:04* | WG1014254 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/28/2017 17:04* | WG1014254 |
| *(S) Dibromofluoromethane* | *99.4* | | | *74.0-131* | | *08/29/2017 16:56* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/28/2017 17:04* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/29/2017 16:56* | WG1014254 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.8 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 4.34 | | 0.0404 | 0.119 | 1 | 08/29/2017 16:37 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* | | *08/29/2017 16:37* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0119 | 0.0596 | 1 | 08/28/2017 17:23 | WG1014254 |
| Acrylonitrile | U | | 0.00213 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Benzene | U | | 0.000322 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Bromobenzene | U | | 0.000339 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Bromodichloromethane | U | | 0.000303 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Bromochloromethane | U | | 0.000465 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| Bromoform | U | | 0.000506 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Bromomethane | U | | 0.00160 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| n-Butylbenzene | U | | 0.000308 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| sec-Butylbenzene | U | | 0.000240 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| tert-Butylbenzene | U | | 0.000246 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Carbon disulfide | U | | 0.000264 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Carbon tetrachloride | U | | 0.000391 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Chlorobenzene | U | | 0.000253 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Chlorodibromomethane | U | | 0.000445 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Chloroethane | U | | 0.00113 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| Chloroform | U | | 0.000273 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| Chloromethane | U | | 0.000447 | 0.00298 | 1 | 08/28/2017 17:23 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000359 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000286 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000409 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Dibromomethane | U | | 0.000456 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000364 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000285 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000270 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000850 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000237 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000316 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1-Dichloroethene | 0.0119 | | 0.000361 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| cis-1,2-Dichloroethene | 12.8 | | 0.147 | 0.626 | 525 | 08/29/2017 17:16 | WG1014254 |
| trans-1,2-Dichloroethene | 0.00769 | | 0.000315 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000427 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000378 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000247 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000312 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000318 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000928 | 0.00298 | 1 | 08/28/2017 17:23 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000333 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Di-isopropyl ether | U | | 0.000296 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Ethylbenzene | U | | 0.000354 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000408 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 2-Hexanone | U | | 0.00163 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |
| n-Hexane | U | | 0.000346 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00302 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Isopropylbenzene | U | | 0.000290 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000243 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00558 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Methylene Chloride | U | | 0.00119 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00224 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Methyl tert-butyl ether | U | | 0.000253 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Naphthalene | U | | 0.00119 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| n-Propylbenzene | U | | 0.000246 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Styrene | U | | 0.000279 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000315 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000435 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000435 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Tetrachloroethene | 10.6 | | 0.173 | 0.626 | 525 | 08/29/2017 17:16 | WG1014254 |
| Toluene | U | | 0.000518 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000365 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000463 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000341 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000330 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Trichloroethene | 2.71 | | 0.0174 | 0.0626 | 52.5 | 08/29/2017 14:39 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000456 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000884 | 0.00298 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2,4-Trimethylbenzene | 0.000329 | J | 0.000252 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000342 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000317 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Vinyl acetate | U | | 0.00285 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Vinyl chloride | 0.405 | | 0.0182 | 0.0626 | 52.5 | 08/29/2017 14:39 | WG1014254 |
| Xylenes, Total | U | | 0.000832 | 0.00358 | 1 | 08/28/2017 17:23 | WG1014254 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/29/2017 14:39* | WG1014254 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/29/2017 17:16* | WG1014254 |
| *(S) Toluene-d8* | *95.8* | | | *80.0-120* | | *08/28/2017 17:23* | WG1014254 |
| *(S) Dibromofluoromethane* | *98.1* | | | *74.0-131* | | *08/29/2017 14:39* | WG1014254 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *08/28/2017 17:23* | WG1014254 |
| *(S) Dibromofluoromethane* | *94.4* | | | *74.0-131* | | *08/29/2017 17:16* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *08/29/2017 17:16* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *08/28/2017 17:23* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/29/2017 14:39* | WG1014254 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.2 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 5.09 | | 0.0406 | 0.120 | 1.01 | 08/29/2017 17:00 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.8* | | | *77.0-120* | | *08/29/2017 17:00* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0119 | 0.0594 | 1 | 08/28/2017 17:43 | WG1014254 |
| Acrylonitrile | U | | 0.00213 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Benzene | U | | 0.000321 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Bromobenzene | U | | 0.000337 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Bromodichloromethane | U | | 0.000302 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Bromochloromethane | U | | 0.000463 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| Bromoform | U | | 0.000503 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Bromomethane | U | | 0.00159 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| n-Butylbenzene | U | | 0.000306 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| sec-Butylbenzene | U | | 0.000239 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| tert-Butylbenzene | U | | 0.000245 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Carbon disulfide | 0.00207 | | 0.000262 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Carbon tetrachloride | U | | 0.000389 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Chlorobenzene | U | | 0.000252 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Chlorodibromomethane | U | | 0.000443 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Chloroethane | U | | 0.00112 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| Chloroform | U | | 0.000272 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| Chloromethane | U | | 0.000445 | 0.00297 | 1 | 08/28/2017 17:43 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000357 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000285 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000407 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Dibromomethane | U | | 0.000454 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000362 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000284 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000268 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000847 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000236 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000315 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1-Dichloroethene | 0.00157 | | 0.000360 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| cis-1,2-Dichloroethene | 5.35 | | 0.0198 | 0.0843 | 71 | 08/29/2017 14:58 | WG1014254 |
| trans-1,2-Dichloroethene | 0.00859 | | 0.000313 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000425 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000376 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000246 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000311 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000317 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000924 | 0.00297 | 1 | 08/28/2017 17:43 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000331 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Di-isopropyl ether | U | | 0.000294 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Ethylbenzene | U | | 0.000353 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000406 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 2-Hexanone | U | | 0.00163 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |
| n-Hexane | U | | 0.000344 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00300 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Isopropylbenzene | U | | 0.000289 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000242 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00556 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Methylene Chloride | U | | 0.00119 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00223 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Methyl tert-butyl ether | U | | 0.000252 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Naphthalene | U | | 0.00119 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| n-Propylbenzene | U | | 0.000245 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Styrene | U | | 0.000278 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000313 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000433 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000433 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Tetrachloroethene | 69.7 | | 2.33 | 8.43 | 7100 | 08/29/2017 17:35 | WG1014254 |
| Toluene | U | | 0.000515 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000363 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000461 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000340 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000329 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Trichloroethene | 3.10 | | 0.0235 | 0.0843 | 71 | 08/29/2017 14:58 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000454 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000880 | 0.00297 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2,4-Trimethylbenzene | 0.000717 | J | 0.000251 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000341 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000316 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Vinyl acetate | U | | 0.00284 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Vinyl chloride | 0.00963 | | 0.000345 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Xylenes, Total | U | | 0.000829 | 0.00356 | 1 | 08/28/2017 17:43 | WG1014254 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/29/2017 17:35* | WG1014254 |
| *(S) Toluene-d8* | *98.7* | | | *80.0-120* | | *08/28/2017 17:43* | WG1014254 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *08/29/2017 14:58* | WG1014254 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *08/29/2017 14:58* | WG1014254 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/28/2017 17:43* | WG1014254 |
| *(S) Dibromofluoromethane* | *99.7* | | | *74.0-131* | | *08/29/2017 17:35* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *08/29/2017 17:35* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *64.0-132* | | *08/28/2017 17:43* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/29/2017 14:58* | WG1014254 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.1 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.157 | | 0.0368 | 0.109 | 1 | 08/29/2017 17:22 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.0* | | | *77.0-120* | | *08/29/2017 17:22* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0148 | J JO | 0.0109 | 0.0543 | 1 | 08/28/2017 18:03 | WG1014254 |
| Acrylonitrile | U | | 0.00194 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Benzene | U | | 0.000293 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Bromochloromethane | U | | 0.000424 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| Bromoform | U | | 0.000461 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Bromomethane | U | | 0.00146 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| n-Butylbenzene | U | | 0.000280 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| sec-Butylbenzene | U | | 0.000218 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Carbon disulfide | 0.00114 | | 0.000240 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Carbon tetrachloride | U | | 0.000356 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Chlorobenzene | U | | 0.000230 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Chlorodibromomethane | U | | 0.000405 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Chloroethane | U | | 0.00103 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| Chloroform | U | | 0.000249 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| Chloromethane | U | | 0.000407 | 0.00272 | 1 | 08/28/2017 18:03 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000327 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000373 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Dibromomethane | U | | 0.000415 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000775 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1-Dichloroethene | U | | 0.000329 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| cis-1,2-Dichloroethene | 0.0594 | | 0.00759 | 0.0323 | 29.75 | 08/29/2017 15:18 | WG1014254 |
| trans-1,2-Dichloroethene | U | | 0.000287 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000389 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000344 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000845 | 0.00272 | 1 | 08/28/2017 18:03 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Di-isopropyl ether | U | | 0.000269 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000372 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |
| n-Hexane | 0.00123 | J | 0.000315 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Isopropylbenzene | U | | 0.000264 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00508 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Methylene Chloride | U | | 0.00109 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Methyl tert-butyl ether | U | | 0.000230 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Naphthalene | U | | 0.00109 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Styrene | U | | 0.000254 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000397 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000397 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Tetrachloroethene | 8.68 | | 0.178 | 0.646 | 595 | 08/29/2017 17:55 | WG1014254 |
| Toluene | U | | 0.000471 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000421 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000311 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000301 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Trichloroethene | 0.0673 | | 0.00902 | 0.0323 | 29.75 | 08/29/2017 15:18 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000415 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000805 | 0.00272 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2,4-Trimethylbenzene | U | | 0.000229 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000312 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Vinyl chloride | 0.00105 | J | 0.000316 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Xylenes, Total | U | | 0.000758 | 0.00326 | 1 | 08/28/2017 18:03 | WG1014254 |
| *(S) Toluene-d8* | *96.3* | | | *80.0-120* | | *08/29/2017 15:18* | WG1014254 |
| *(S) Toluene-d8* | *98.9* | | | *80.0-120* | | *08/28/2017 18:03* | WG1014254 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/29/2017 17:55* | WG1014254 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *08/28/2017 18:03* | WG1014254 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *08/29/2017 15:18* | WG1014254 |
| *(S) Dibromofluoromethane* | *99.1* | | | *74.0-131* | | *08/29/2017 17:55* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/29/2017 15:18* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/29/2017 17:55* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *08/28/2017 18:03* | WG1014254 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.4 | | 1 | 08/31/2017 10:33 | WG1015137 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0135 | J J0 | 0.0113 | 0.0565 | 1 | 08/28/2017 18:22 | WG1014254 |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Benzene | U | | 0.000305 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Bromobenzene | U | | 0.000321 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Bromodichloromethane | U | | 0.000287 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Bromochloromethane | U | | 0.000441 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| Bromoform | U | | 0.000480 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Bromomethane | U | | 0.00152 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| n-Butylbenzene | U | | 0.000292 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| sec-Butylbenzene | U | | 0.000227 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| tert-Butylbenzene | U | | 0.000233 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Carbon disulfide | 0.000864 | J | 0.000250 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Carbon tetrachloride | U | | 0.000371 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Chlorobenzene | U | | 0.000240 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Chlorodibromomethane | U | | 0.000422 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Chloroethane | U | | 0.00107 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| Chloroform | U | | 0.000259 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| Chloromethane | U | | 0.000424 | 0.00283 | 1 | 08/28/2017 18:22 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000340 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000271 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000388 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Dibromomethane | U | | 0.000432 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000270 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000806 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000300 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1-Dichloroethene | 0.000572 | J | 0.000343 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| cis-1,2-Dichloroethene | 0.152 | | 0.000266 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| trans-1,2-Dichloroethene | 0.00577 | | 0.000299 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000405 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000359 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000296 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000302 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000880 | 0.00283 | 1 | 08/28/2017 18:22 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000316 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Di-isopropyl ether | U | | 0.000280 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Ethylbenzene | U | | 0.000336 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000387 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |
| n-Hexane | 0.000628 | J | 0.000328 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Iodomethane | U | | 0.00286 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Isopropylbenzene | U | | 0.000275 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000231 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00529 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Methylene Chloride | U | | 0.00113 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00213 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000240 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Naphthalene | U | | 0.00113 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| n-Propylbenzene | U | | 0.000233 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Styrene | U | | 0.000265 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000299 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000413 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000413 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Tetrachloroethene | 0.407 | | 0.00780 | 0.0283 | 25 | 08/29/2017 18:14 | WG1014254 |
| Toluene | U | | 0.000491 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000439 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000323 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000313 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Trichloroethene | 0.00118 | | 0.000316 | 0.00113 | 1 | 08/29/2017 15:38 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000432 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000838 | 0.00283 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2,4-Trimethylbenzene | U | | 0.000239 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000325 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000301 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Vinyl acetate | U | | 0.00270 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Vinyl chloride | 0.00719 | | 0.000329 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Xylenes, Total | U | | 0.000789 | 0.00339 | 1 | 08/28/2017 18:22 | WG1014254 |
| *(S) Toluene-d8* | *93.6* | | | *80.0-120* | | *08/29/2017 15:38* | WG1014254 |
| *(S) Toluene-d8* | *98.1* | | | *80.0-120* | | *08/29/2017 18:14* | WG1014254 |
| *(S) Toluene-d8* | *96.3* | | | *80.0-120* | | *08/28/2017 18:22* | WG1014254 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/29/2017 15:38* | WG1014254 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/29/2017 18:14* | WG1014254 |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* | | *08/28/2017 18:22* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *08/29/2017 18:14* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/28/2017 18:22* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *64.0-132* | | *08/29/2017 15:38* | WG1014254 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.6 | | 1 | 08/30/2017 16:41 | WG1015141 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0118 | 0.0591 | 1 | 08/28/2017 18:42 | WG1014254 |
| Acrylonitrile | U | | 0.00212 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Benzene | U | | 0.000319 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Bromobenzene | U | | 0.000336 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Bromodichloromethane | U | | 0.000300 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Bromochloromethane | U | | 0.000461 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| Bromoform | U | | 0.000501 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Bromomethane | U | | 0.00158 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| n-Butylbenzene | U | | 0.000305 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| sec-Butylbenzene | U | | 0.000238 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| tert-Butylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Carbon disulfide | U | | 0.000261 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Carbon tetrachloride | U | | 0.000388 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Chlorobenzene | U | | 0.000251 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Chlorodibromomethane | U | | 0.000441 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Chloroethane | U | | 0.00112 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| Chloroform | U | | 0.000271 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| Chloromethane | U | | 0.000443 | 0.00295 | 1 | 08/28/2017 18:42 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000356 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000284 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000405 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Dibromomethane | U | | 0.000451 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000360 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000282 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000267 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000843 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000235 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000313 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1-Dichloroethene | 0.00125 | | 0.000358 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| cis-1,2-Dichloroethene | 0.0257 | | 0.000278 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| trans-1,2-Dichloroethene | 0.000708 | J | 0.000312 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000423 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000375 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000245 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000310 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000316 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000920 | 0.00295 | 1 | 08/28/2017 18:42 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000330 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Di-isopropyl ether | U | | 0.000293 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Ethylbenzene | U | | 0.000351 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000404 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 2-Hexanone | U | | 0.00162 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |
| n-Hexane | U | | 0.000343 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Iodomethane | U | | 0.00299 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Isopropylbenzene | U | | 0.000287 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000241 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00553 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Methylene Chloride | U | | 0.00118 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00222 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000251 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Naphthalene | U | | 0.00118 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Styrene | U | | 0.000277 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000312 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000431 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000431 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Tetrachloroethene | U | | 0.00816 | 0.0295 | 25 | 08/29/2017 18:34 | WG1014254 |
| Toluene | U | | 0.000513 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000362 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000459 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000338 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000327 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Trichloroethene | 0.000689 | J | 0.000330 | 0.00118 | 1 | 08/29/2017 15:57 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000451 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000876 | 0.00295 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000339 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000314 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Vinyl chloride | 0.00270 | | 0.000344 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Xylenes, Total | U | | 0.000825 | 0.00355 | 1 | 08/28/2017 18:42 | WG1014254 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/29/2017 18:34* | WG1014254 |
| *(S) Toluene-d8* | *97.0* | | | *80.0-120* | | *08/28/2017 18:42* | WG1014254 |
| *(S) Toluene-d8* | *93.8* | | | *80.0-120* | | *08/29/2017 15:57* | WG1014254 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *08/28/2017 18:42* | WG1014254 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *08/29/2017 15:57* | WG1014254 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *08/29/2017 18:34* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/28/2017 18:42* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *08/29/2017 18:34* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/29/2017 15:57* | WG1014254 |

**Sample Narrative:**

L932059-09 WG1014254: No stir bars remain for analysis.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.9 | | 1 | 08/30/2017 16:41 | WG1015141 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0123 | J J0 | 0.0109 | 0.0544 | 1 | 08/28/2017 19:01 | WG1014254 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Bromochloromethane | U | | 0.000424 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| Bromoform | U | | 0.000461 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Bromomethane | U | | 0.00146 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Carbon disulfide | 0.00136 | | 0.000240 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Carbon tetrachloride | U | | 0.000357 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Chlorodibromomethane | U | | 0.000406 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Chloroethane | U | | 0.00103 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| Chloroform | U | | 0.000249 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| Chloromethane | U | | 0.000408 | 0.00272 | 1 | 08/28/2017 19:01 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000373 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Dibromomethane | U | | 0.000416 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000776 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1-Dichloroethene | 0.000656 | J | 0.000330 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| cis-1,2-Dichloroethene | 0.160 | | 0.000256 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| trans-1,2-Dichloroethene | 0.00656 | | 0.000287 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000847 | 0.00272 | 1 | 08/28/2017 19:01 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000372 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |
| n-Hexane | 0.000803 | J | 0.000316 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Isopropylbenzene | U | | 0.000264 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00509 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Methylene Chloride | U | | 0.00109 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Naphthalene | U | | 0.00109 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000397 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000397 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Tetrachloroethene | 0.0109 | | 0.000300 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Toluene | U | | 0.000472 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000422 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000311 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000301 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Trichloroethene | 0.00162 | | 0.000304 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000416 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000806 | 0.00272 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000312 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Vinyl chloride | 0.00719 | | 0.000317 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Xylenes, Total | U | | 0.000760 | 0.00326 | 1 | 08/28/2017 19:01 | WG1014254 |
| *(S) Toluene-d8* | *97.2* | | | *80.0-120* | | *08/28/2017 19:01* | WG1014254 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/28/2017 19:01* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *08/28/2017 19:01* | WG1014254 |

## Method Blank (MB)

(MB) R3246215-1 08/31/17 10:33

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000800 | | | |

## L932066-01 Original Sample (OS) • Duplicate (DUP)

(OS) L932066-01 08/31/17 10:33 • (DUP) R3246215-3 08/31/17 10:33

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 84.7 | 82.7 | 1 | 2.46 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3246215-2 08/31/17 10:33

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3245886-1 08/30/17 16:41

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00130 | | | |

## L932059-09 Original Sample (OS) • Duplicate (DUP)

(OS) L932059-09 08/30/17 16:41 • (DUP) R3245886-3 08/30/17 16:41

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 84.6 | 85.0 | 1 | 0.462 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3245886-2 08/30/17 16:41

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 99.9 | 85.0-115 | |

## Method Blank (MB)

(MB) R3246231-1 08/31/17 12:03

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000800 | | | |

## L932032-09 Original Sample (OS) • Duplicate (DUP)

(OS) L932032-09 08/31/17 12:03 • (DUP) R3246231-3 08/31/17 12:03

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 88.2 | 87.4 | 1 | 0.883 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3246231-2 08/31/17 12:03

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3245529-3 08/29/17 11:54

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.0* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3245529-1 08/29/17 10:48 • (LCSD) R3245529-2 08/29/17 11:10

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | 4.88 | 5.02 | 88.8 | 91.3 | 70.0-133 | | | 2.75 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *107* | *108* | *77.0-120* | | | | |

## L932007-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932007-01 08/29/17 14:46 • (MS) R3245529-4 08/29/17 19:35 • (MSD) R3245529-5 08/29/17 19:57

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 6.93 | ND | 112 | 105 | 64.4 | 60.8 | 25 | 10.0-146 | | | 5.75 | 30 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *104* | *104* | | *77.0-120* | | | | |

**Sample Narrative:**

OS: No stir bars remain for analysis.

## Method Blank (MB)

(MB) R3245209-3 08/28/17 11:17

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3245209-3 08/28/17 11:17

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *100* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3245209-1 08/28/17 10:18 • (LCSD) R3245209-2 08/28/17 10:37

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.168 | 0.173 | 134 | 138 | 11.0-160 | | | 2.90 | 23 |
| Acrylonitrile | 0.125 | 0.127 | 0.129 | 102 | 103 | 61.0-143 | | | 1.48 | 20 |
| Benzene | 0.0250 | 0.0265 | 0.0262 | 106 | 105 | 71.0-124 | | | 1.18 | 20 |
| Bromobenzene | 0.0250 | 0.0256 | 0.0250 | 102 | 100 | 78.0-120 | | | 2.13 | 20 |
| Bromodichloromethane | 0.0250 | 0.0259 | 0.0260 | 103 | 104 | 75.0-120 | | | 0.520 | 20 |
| Bromochloromethane | 0.0250 | 0.0262 | 0.0273 | 105 | 109 | 80.0-121 | | | 4.11 | 20 |
| Bromoform | 0.0250 | 0.0257 | 0.0263 | 103 | 105 | 65.0-133 | | | 2.16 | 20 |
| Bromomethane | 0.0250 | 0.0272 | 0.0280 | 109 | 112 | 26.0-160 | | | 2.83 | 20 |
| n-Butylbenzene | 0.0250 | 0.0281 | 0.0285 | 112 | 114 | 73.0-126 | | | 1.56 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0277 | 0.0280 | 111 | 112 | 75.0-121 | | | 1.17 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0279 | 0.0278 | 112 | 111 | 74.0-122 | | | 0.520 | 20 |
| Carbon disulfide | 0.0250 | 0.0243 | 0.0230 | 97.3 | 92.0 | 53.0-130 | | | 5.53 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0254 | 0.0255 | 102 | 102 | 66.0-123 | | | 0.350 | 20 |
| Chlorobenzene | 0.0250 | 0.0269 | 0.0258 | 108 | 103 | 79.0-121 | | | 4.21 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0269 | 0.0266 | 108 | 106 | 74.0-128 | | | 1.20 | 20 |
| Chloroethane | 0.0250 | 0.0249 | 0.0259 | 99.5 | 104 | 51.0-147 | | | 4.01 | 20 |
| Chloroform | 0.0250 | 0.0258 | 0.0258 | 103 | 103 | 73.0-123 | | | 0.250 | 20 |
| Chloromethane | 0.0250 | 0.0222 | 0.0226 | 88.8 | 90.4 | 51.0-138 | | | 1.87 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0272 | 0.0270 | 109 | 108 | 72.0-124 | | | 0.800 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0270 | 0.0265 | 108 | 106 | 78.0-120 | | | 1.70 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0259 | 0.0262 | 104 | 105 | 65.0-126 | | | 1.06 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0272 | 0.0258 | 109 | 103 | 78.0-122 | | | 5.28 | 20 |
| Dibromomethane | 0.0250 | 0.0272 | 0.0269 | 109 | 107 | 79.0-120 | | | 1.37 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0270 | 0.0272 | 108 | 109 | 80.0-120 | | | 0.810 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0269 | 0.0272 | 108 | 109 | 72.0-123 | | | 0.870 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0262 | 0.0262 | 105 | 105 | 77.0-120 | | | 0.0700 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0216 | 0.0221 | 86.6 | 88.5 | 68.0-126 | | | 2.26 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0240 | 0.0241 | 96.1 | 96.4 | 49.0-155 | | | 0.280 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0251 | 0.0254 | 101 | 102 | 70.0-128 | | | 0.990 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0259 | 0.0266 | 103 | 106 | 69.0-128 | | | 2.78 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0253 | 0.0244 | 101 | 97.7 | 63.0-131 | | | 3.52 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0260 | 0.0260 | 104 | 104 | 74.0-123 | | | 0.120 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0257 | 0.0260 | 103 | 104 | 72.0-122 | | | 1.33 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0249 | 0.0249 | 99.7 | 99.7 | 75.0-126 | | | 0.0100 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0256 | 0.0262 | 102 | 105 | 72.0-130 | | | 2.17 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0267 | 0.0259 | 107 | 104 | 80.0-121 | | | 3.27 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0246 | 0.0238 | 98.2 | 95.2 | 80.0-125 | | | 3.11 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0268 | 0.0247 | 107 | 99.0 | 75.0-129 | | | 7.87 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0257 | 0.0262 | 103 | 105 | 60.0-129 | | | 1.65 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0238 | 0.0239 | 95.1 | 95.7 | 62.0-133 | | | 0.690 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3245209-1 08/28/17 10:18 • (LCSD) R3245209-2 08/28/17 10:37

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0266 | 0.0256 | 106 | 103 | 77.0-120 | | | 3.59 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0251 | 0.0261 | 100 | 104 | 68.0-128 | | | 3.89 | 20 |
| 2-Hexanone | 0.125 | 0.137 | 0.131 | 110 | 104 | 61.0-143 | | | 5.01 | 20 |
| n-Hexane | 0.0250 | 0.0227 | 0.0224 | 90.8 | 89.4 | 57.0-125 | | | 1.54 | 20 |
| Iodomethane | 0.125 | 0.111 | 0.108 | 88.9 | 86.4 | 67.0-132 | | | 2.80 | 20 |
| Isopropylbenzene | 0.0250 | 0.0277 | 0.0275 | 111 | 110 | 75.0-120 | | | 0.690 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0265 | 0.0272 | 106 | 109 | 74.0-125 | | | 2.57 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.148 | 0.150 | 119 | 120 | 37.0-159 | | | 1.11 | 20 |
| Methylene Chloride | 0.0250 | 0.0240 | 0.0246 | 96.0 | 98.4 | 67.0-123 | | | 2.55 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.131 | 0.128 | 105 | 103 | 60.0-144 | | | 2.05 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0255 | 0.0252 | 102 | 101 | 66.0-125 | | | 1.14 | 20 |
| Naphthalene | 0.0250 | 0.0255 | 0.0275 | 102 | 110 | 64.0-125 | | | 7.46 | 20 |
| n-Propylbenzene | 0.0250 | 0.0270 | 0.0271 | 108 | 109 | 78.0-120 | | | 0.460 | 20 |
| Styrene | 0.0250 | 0.0274 | 0.0271 | 110 | 108 | 78.0-124 | | | 1.13 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0266 | 0.0262 | 106 | 105 | 74.0-124 | | | 1.40 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0278 | 0.0277 | 111 | 111 | 73.0-120 | | | 0.580 | 20 |
| Tetrachloroethene | 0.0250 | 0.0279 | 0.0263 | 112 | 105 | 70.0-127 | | | 5.83 | 20 |
| Toluene | 0.0250 | 0.0274 | 0.0260 | 109 | 104 | 77.0-120 | | | 5.07 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0282 | 0.0274 | 113 | 110 | 64.0-135 | | | 2.94 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0243 | 0.0263 | 97.1 | 105 | 68.0-126 | | | 7.85 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0248 | 0.0267 | 99.2 | 107 | 70.0-127 | | | 7.25 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0268 | 0.0268 | 107 | 107 | 69.0-125 | | | 0.0700 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0264 | 0.0259 | 106 | 104 | 78.0-120 | | | 2.15 | 20 |
| Trichloroethene | 0.0250 | 0.0263 | 0.0261 | 105 | 104 | 79.0-120 | | | 0.870 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0289 | 0.0291 | 115 | 116 | 59.0-136 | | | 0.680 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0281 | 0.0273 | 113 | 109 | 73.0-124 | | | 2.85 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0267 | 0.0271 | 107 | 108 | 76.0-120 | | | 1.55 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0259 | 0.0262 | 104 | 105 | 75.0-120 | | | 1.24 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0275 | 0.0274 | 110 | 110 | 75.0-120 | | | 0.220 | 20 |
| Vinyl acetate | 0.125 | 0.128 | 0.125 | 102 | 100 | 58.0-156 | | | 2.16 | 20 |
| Vinyl chloride | 0.0250 | 0.0257 | 0.0254 | 103 | 102 | 63.0-134 | | | 1.24 | 20 |
| Xylenes, Total | 0.0750 | 0.0821 | 0.0789 | 109 | 105 | 77.0-120 | | | 3.98 | 20 |
| *(S) Toluene-d8* | | | | *103* | *101* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *97.8* | *99.3* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *102* | *102* | *64.0-132* | | | | |

## L932017-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932017-01 08/28/17 14:52 • (MS) R3245209-4 08/28/17 12:15 • (MSD) R3245209-5 08/28/17 12:35

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | ND | 10.4 | 9.12 | 83.4 | 73.0 | 100 | 10.0-160 | | | 13.3 | 36 |
| Acrylonitrile | 0.125 | ND | 10.9 | 10.5 | 87.0 | 84.2 | 100 | 14.0-160 | | | 3.28 | 33 |
| Benzene | 0.0250 | ND | 2.02 | 1.99 | 79.3 | 78.1 | 100 | 13.0-146 | | | 1.46 | 27 |
| Bromobenzene | 0.0250 | ND | 1.86 | 1.87 | 74.5 | 74.9 | 100 | 10.0-149 | | | 0.500 | 33 |
| Bromodichloromethane | 0.0250 | ND | 2.03 | 1.97 | 80.1 | 77.8 | 100 | 15.0-142 | | | 2.82 | 28 |
| Bromochloromethane | 0.0250 | ND | 2.12 | 2.08 | 84.6 | 83.2 | 100 | 24.0-146 | | | 1.72 | 27 |
| Bromoform | 0.0250 | ND | 1.86 | 1.89 | 74.4 | 75.5 | 100 | 10.0-147 | | | 1.48 | 31 |
| Bromomethane | 0.0250 | ND | 1.29 | 1.38 | 51.6 | 55.2 | 100 | 10.0-160 | | | 6.70 | 32 |
| n-Butylbenzene | 0.0250 | ND | 2.33 | 2.33 | 90.7 | 90.4 | 100 | 10.0-154 | | | 0.270 | 37 |
| sec-Butylbenzene | 0.0250 | ND | 2.17 | 2.23 | 84.4 | 86.7 | 100 | 10.0-151 | | | 2.67 | 36 |
| tert-Butylbenzene | 0.0250 | ND | 2.11 | 2.13 | 84.3 | 85.3 | 100 | 10.0-152 | | | 1.29 | 35 |
| Carbon disulfide | 0.0250 | ND | 1.84 | 1.79 | 73.7 | 71.4 | 100 | 10.0-141 | | | 3.12 | 30 |
| Carbon tetrachloride | 0.0250 | ND | 1.91 | 1.96 | 76.4 | 78.3 | 100 | 13.0-140 | | | 2.47 | 30 |
| Chlorobenzene | 0.0250 | ND | 2.06 | 2.07 | 82.6 | 82.8 | 100 | 10.0-149 | | | 0.270 | 31 |
| Chlorodibromomethane | 0.0250 | ND | 2.08 | 2.07 | 83.3 | 83.0 | 100 | 12.0-147 | | | 0.400 | 29 |
| Chloroethane | 0.0250 | ND | 2.34 | 2.23 | 93.8 | 89.1 | 100 | 10.0-159 | | | 5.06 | 33 |
| Chloroform | 0.0250 | ND | 2.03 | 2.01 | 81.1 | 80.3 | 100 | 18.0-148 | | | 1.02 | 28 |
| Chloromethane | 0.0250 | ND | 1.30 | 1.36 | 52.0 | 54.4 | 100 | 10.0-146 | | | 4.56 | 29 |
| 2-Chlorotoluene | 0.0250 | 0.476 | 2.59 | 2.58 | 84.5 | 84.1 | 100 | 10.0-151 | | | 0.430 | 35 |
| 4-Chlorotoluene | 0.0250 | ND | 2.05 | 2.05 | 81.9 | 82.0 | 100 | 10.0-150 | | | 0.180 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | ND | 2.13 | 2.19 | 85.0 | 87.4 | 100 | 10.0-149 | | | 2.83 | 34 |
| 1,2-Dibromoethane | 0.0250 | ND | 2.06 | 2.05 | 82.5 | 82.1 | 100 | 14.0-145 | | | 0.440 | 28 |
| Dibromomethane | 0.0250 | ND | 2.12 | 2.05 | 84.7 | 82.0 | 100 | 18.0-144 | | | 3.22 | 27 |
| 1,2-Dichlorobenzene | 0.0250 | ND | 2.18 | 2.20 | 87.3 | 88.1 | 100 | 10.0-153 | | | 0.940 | 34 |
| 1,3-Dichlorobenzene | 0.0250 | ND | 2.09 | 2.14 | 83.6 | 85.5 | 100 | 10.0-150 | | | 2.21 | 35 |
| 1,4-Dichlorobenzene | 0.0250 | ND | 2.16 | 2.18 | 86.3 | 87.3 | 100 | 10.0-148 | | | 1.14 | 34 |
| trans-1,4-Dichloro-2-butene | 0.0250 | ND | 1.81 | 1.92 | 72.3 | 77.0 | 100 | 10.0-160 | | | 6.34 | 40 |
| Dichlorodifluoromethane | 0.0250 | ND | 1.42 | 1.52 | 57.0 | 60.7 | 100 | 10.0-160 | | | 6.33 | 30 |
| 1,1-Dichloroethane | 0.0250 | ND | 2.02 | 1.96 | 80.9 | 78.2 | 100 | 19.0-148 | | | 3.38 | 28 |
| 1,2-Dichloroethane | 0.0250 | ND | 2.09 | 2.01 | 83.6 | 80.4 | 100 | 17.0-147 | | | 3.95 | 27 |
| 1,1-Dichloroethene | 0.0250 | ND | 2.37 | 2.29 | 94.9 | 91.8 | 100 | 10.0-150 | | | 3.36 | 31 |
| cis-1,2-Dichloroethene | 0.0250 | ND | 2.02 | 2.01 | 80.8 | 80.4 | 100 | 16.0-145 | | | 0.530 | 28 |
| trans-1,2-Dichloroethene | 0.0250 | ND | 1.91 | 1.99 | 76.3 | 79.5 | 100 | 11.0-142 | | | 4.08 | 29 |
| 1,2-Dichloropropane | 0.0250 | ND | 2.03 | 1.98 | 81.0 | 79.1 | 100 | 17.0-148 | | | 2.34 | 28 |
| 1,1-Dichloropropene | 0.0250 | ND | 1.97 | 1.99 | 79.0 | 79.6 | 100 | 10.0-150 | | | 0.720 | 30 |
| 1,3-Dichloropropane | 0.0250 | ND | 2.03 | 2.04 | 81.1 | 81.5 | 100 | 16.0-148 | | | 0.460 | 27 |
| cis-1,3-Dichloropropene | 0.0250 | ND | 1.95 | 1.95 | 78.2 | 78.1 | 100 | 13.0-150 | | | 0.140 | 28 |
| trans-1,3-Dichloropropene | 0.0250 | ND | 2.01 | 2.04 | 80.3 | 81.8 | 100 | 10.0-152 | | | 1.78 | 29 |
| 2,2-Dichloropropane | 0.0250 | ND | 2.03 | 2.07 | 81.0 | 82.8 | 100 | 16.0-143 | | | 2.20 | 30 |
| Di-isopropyl ether | 0.0250 | ND | 1.92 | 1.92 | 76.7 | 76.8 | 100 | 16.0-149 | | | 0.120 | 28 |

## L932017-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932017-01 08/28/17 14:52 • (MS) R3245209-4 08/28/17 12:15 • (MSD) R3245209-5 08/28/17 12:35

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.565 | 2.54 | 2.62 | 78.8 | 82.1 | 100 | 10.0-147 | | | 3.11 | 31 |
| Hexachloro-1,3-butadiene | 0.0250 | ND | 2.30 | 2.22 | 91.9 | 88.8 | 100 | 10.0-154 | | | 3.50 | 40 |
| 2-Hexanone | 0.125 | ND | 10.7 | 10.4 | 85.8 | 83.0 | 100 | 12.0-158 | | | 3.25 | 30 |
| n-Hexane | 0.0250 | ND | 1.50 | 1.60 | 56.9 | 61.1 | 100 | 10.0-140 | | | 6.66 | 34 |
| Iodomethane | 0.125 | ND | 11.3 | 12.3 | 90.2 | 98.7 | 100 | 10.0-157 | | | 8.98 | 34 |
| Isopropylbenzene | 0.0250 | ND | 2.07 | 2.10 | 79.9 | 81.0 | 100 | 10.0-147 | | | 1.30 | 33 |
| p-Isopropyltoluene | 0.0250 | 0.408 | 2.48 | 2.53 | 82.8 | 84.7 | 100 | 10.0-156 | | | 1.89 | 37 |
| 2-Butanone (MEK) | 0.125 | ND | 10.9 | 10.3 | 87.1 | 82.8 | 100 | 10.0-160 | | | 5.06 | 33 |
| Methylene Chloride | 0.0250 | ND | 1.93 | 1.96 | 77.3 | 78.3 | 100 | 16.0-139 | | | 1.21 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | ND | 10.4 | 10.2 | 80.2 | 78.9 | 100 | 12.0-160 | | | 1.61 | 32 |
| Methyl tert-butyl ether | 0.0250 | ND | 2.10 | 2.08 | 84.1 | 83.3 | 100 | 21.0-145 | | | 0.950 | 29 |
| Naphthalene | 0.0250 | 3.12 | 5.44 | 5.39 | 92.6 | 90.6 | 100 | 10.0-153 | | | 0.940 | 36 |
| n-Propylbenzene | 0.0250 | 0.169 | 2.15 | 2.18 | 79.1 | 80.6 | 100 | 10.0-151 | | | 1.82 | 34 |
| Styrene | 0.0250 | ND | 2.06 | 2.08 | 82.6 | 83.1 | 100 | 10.0-155 | | | 0.590 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | ND | 2.05 | 2.07 | 82.0 | 82.9 | 100 | 10.0-147 | | | 1.10 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | ND | 2.21 | 2.17 | 88.3 | 86.7 | 100 | 10.0-155 | | | 1.76 | 31 |
| Tetrachloroethene | 0.0250 | ND | 1.94 | 2.03 | 77.6 | 81.4 | 100 | 10.0-144 | | | 4.75 | 32 |
| Toluene | 0.0250 | ND | 2.02 | 2.05 | 77.1 | 78.5 | 100 | 10.0-144 | | | 1.83 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | ND | 2.76 | 2.64 | 111 | 106 | 100 | 10.0-153 | | | 4.64 | 33 |
| 1,2,3-Trichlorobenzene | 0.0250 | ND | 2.24 | 2.23 | 89.7 | 89.2 | 100 | 10.0-153 | | | 0.510 | 40 |
| 1,2,4-Trichlorobenzene | 0.0250 | ND | 2.30 | 2.32 | 92.2 | 92.9 | 100 | 10.0-156 | | | 0.790 | 40 |
| 1,1,1-Trichloroethane | 0.0250 | ND | 2.07 | 2.11 | 82.8 | 84.2 | 100 | 18.0-145 | | | 1.68 | 29 |
| 1,1,2-Trichloroethane | 0.0250 | 0.123 | 2.13 | 2.12 | 80.2 | 79.7 | 100 | 12.0-151 | | | 0.600 | 28 |
| Trichloroethene | 0.0250 | ND | 1.92 | 2.05 | 76.7 | 82.1 | 100 | 11.0-148 | | | 6.85 | 29 |
| Trichlorofluoromethane | 0.0250 | ND | 2.84 | 2.65 | 113 | 106 | 100 | 10.0-157 | | | 6.68 | 34 |
| 1,2,3-Trichloropropane | 0.0250 | ND | 2.17 | 2.19 | 86.8 | 87.5 | 100 | 10.0-154 | | | 0.780 | 32 |
| 1,2,3-Trimethylbenzene | 0.0250 | 4.21 | 6.23 | 6.16 | 80.9 | 78.2 | 100 | 10.0-150 | | | 1.12 | 33 |
| 1,2,4-Trimethylbenzene | 0.0250 | 12.7 | 14.1 | 14.0 | 57.3 | 51.7 | 100 | 10.0-151 | | | 0.990 | 34 |
| 1,3,5-Trimethylbenzene | 0.0250 | 4.07 | 5.94 | 5.93 | 74.7 | 74.6 | 100 | 10.0-150 | | | 0.0100 | 33 |
| Vinyl acetate | 0.125 | ND | 10.6 | 9.99 | 85.1 | 79.9 | 100 | 10.0-160 | | | 6.27 | 40 |
| Vinyl chloride | 0.0250 | ND | 1.45 | 1.52 | 57.9 | 61.0 | 100 | 10.0-150 | | | 5.12 | 29 |
| Xylenes, Total | 0.0750 | 9.06 | 15.1 | 15.0 | 80.3 | 79.3 | 100 | 10.0-150 | | | 0.470 | 31 |
| *(S) Toluene-d8* | | | | | *98.8* | *100* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *102* | *97.9* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *96.2* | *92.8* | | *64.0-132* | | | | |

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

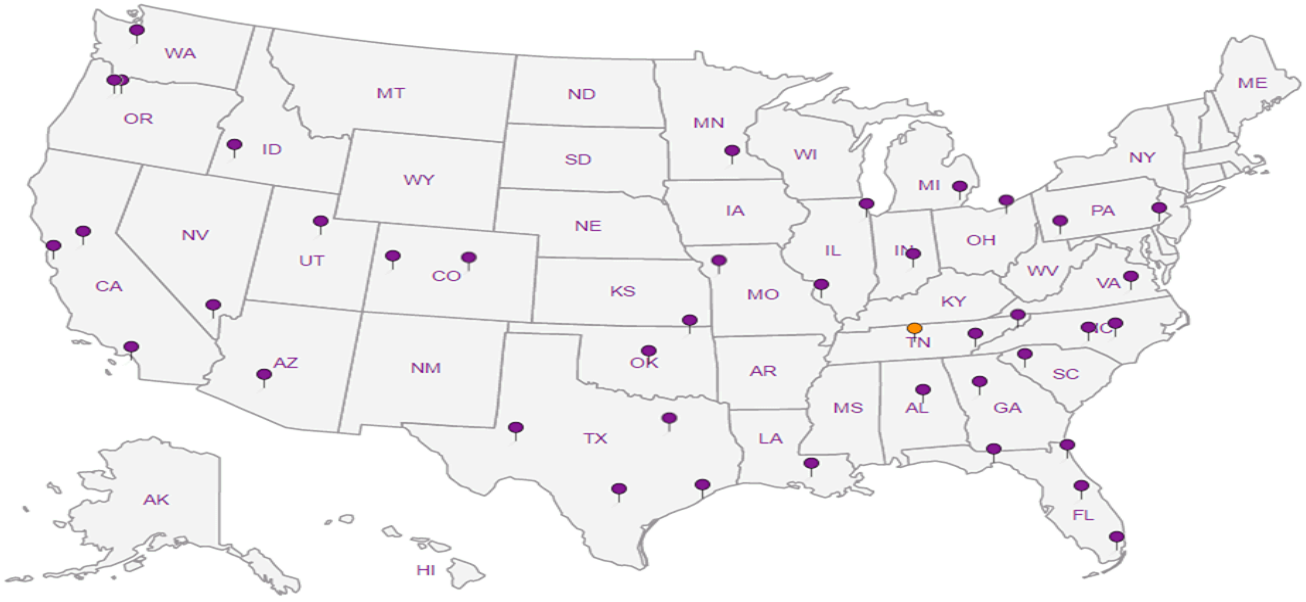
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: **Bill Haldeman**

Email To: **bhaldeman@pesenv.com**

Project Description: **American Linen Project**

City/State Collected: SEATTLE, WA

Phone: **206-529-3980**
Fax: **206-529-3985**

Client Project # 1413.001.02.602

Lab Project # **PESENVSWA-ALP**

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-135-16 | GRAB | SS | 16 | 8/24/17 | 0805 | 5 | X | | X | X | | | 01 |
| MW-135-20 | | SS | 20 | | 0830 | 5 | X | | X | X | | | 02 |
| MW-135-30 | | SS | 30 | | 0855 | 2 | X | | X | X | | 2 JARS - COARSE | 03 |
| MW-135-36 | | SS | 36 | | 0900 | 5 | X | | X | X | | | 04 |
| MW-135-40 | | SS | 40 | | 0940 | 5 | X | | X | X | | | 05 |
| MW-135-45 | | SS | 45 | | 0955 | 5 | X | | X | X | | | 06 |
| MW-135-55 | | SS | 55 | | 1050 | 5 | X | | X | X | | | 07 |
| ~~MW~~ B-901-50 | | GWSS | 50 | | 1120 | 4 | | | X | X | X | | 08 |
| ~~MW~~ B-208-20 | | GWSS | 20 | | 1130 | 4 | | | X | X | X | | 09 |
| ~~MW~~ B-208-35 | ↓ | GWSS | 35 | ↓ | 1205 | 4 | | | X | X | X | | 10 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 7474 0921 0219

Trip Blank Received: Yes / (No)
HCL / MeoH
TBR

Temp: 1.3 °C Bottles Received: 44

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 8/24/17 | 1330 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| | | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | |

Date: 8/25/17 Time: 0845

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Chain of Custody Page 1 of 1

ESC LABORATORIES
a subsidiary of Accutest

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 932054 932447

G060

Acctnum: PESENVSWA
Template: T126586
Prelogin: P613274
TSR: 110 - Brian Ford
PB: 8/10/17 MG
Shipped Via: FedEx Ground

# MEMORANDUM

**TO:** Project File **DATE:** September 20, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** August 24, 2017 – Soil Samples

**LAB:** ESC Lab ID L932059

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Ten (10) soil samples were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on August 24, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L932059. The quarterly monitoring round occurred August and September of 2017. Associated sample data are reported in X# ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L934130, L934673, L934916, and). The quality assurance review of the sample data associated with SDG L932059 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on August 24, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 1.3 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of 7 days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C for soils:* Continuing calibration verification (CCV) issues were noted by ESC for acetone associated with analytical batch WG1014254 (analyzed on August 28, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at or above the reported detection limits (RDLs).

*NWTPH-Gx Method:*
A laboratory method blank was included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blank at or above the RDL.

*Total Solids by SM 2540 G 2011:*

Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (% solids) were not detected at significant levels in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C and NWTPH-Gx:*
A trip blank was not collected.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate (B-208-35 and B-901-50) results are comparable and less than 30% RPD with the following exception:

- **The RPD for tetrachloroethene exceeds criteria and field duplicate results are estimated and qualified (J).**

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) and/or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on client sample B-208-20 and a non-client samples within the analytical batches. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds (VOCs) are within the laboratory control criteria for soils.

*NWTPH-Gx Method:*
LCS/LCSD was analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
MS/MSD analyses were performed on a non-client sample within the analytical batch. MS/MSD % Rs and RPDs for target compounds are within laboratory control limit criteria for soils.

*NWTPH-Gx Method:*
MS/MSD analyses were performed on a non-client sample within the analytical batch. MS/MSD % Rs and RPD for gasoline were within the laboratory control criteria for soils.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- ESC notes indicate that no stir bars remain for VOC analysis on sample B-208-20 (Analytical Batch WG1014254). ESC indicated that samples were field preserved with low level sodium bisulfite (stir bars) and high level methanol vials. All targets were run undiluted (1X) except for tetrachloroethene (PCE) which was run at a 25X dilution factor. ESC was unable to analyze tetrachloroethene at a lower dilution factor due to an insufficient number of vials preserved with sodium bisulfite. No action was taken other than to note that PCE is still under the screening criteria. ESC is taking steps to minimize this occurrence by providing additional sodium bisulfite vials per sample.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.0 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 641 | | 10.3 | 30.5 | 250 | 09/01/2017 05:01 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.5* | | | *77.0-120* | | *09/01/2017 05:01* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 1.22 | 6.10 | 100 | 08/29/2017 14:46 | WG1014254 |
| Acrylonitrile | U | | 0.218 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |
| Benzene | U | | 0.0329 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Bromobenzene | U | | 0.0346 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Bromodichloromethane | U | | 0.0310 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Bromochloromethane | U | | 0.0476 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| Bromoform | U | | 0.0517 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Bromomethane | U | | 0.163 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| n-Butylbenzene | 0.339 | | 0.0315 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| sec-Butylbenzene | 0.167 | | 0.0245 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| tert-Butylbenzene | 0.0271 | J | 0.0251 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Carbon disulfide | U | | 0.0270 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Carbon tetrachloride | U | | 0.0400 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Chlorobenzene | U | | 0.0259 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Chlorodibromomethane | U | | 0.0455 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Chloroethane | U | | 0.115 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| Chloroform | U | | 0.0279 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| Chloromethane | U | | 0.0457 | 0.305 | 100 | 08/29/2017 14:46 | WG1014254 |
| 2-Chlorotoluene | U | | 0.0367 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 4-Chlorotoluene | U | | 0.0293 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.128 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.0418 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Dibromomethane | U | | 0.0466 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.0372 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.0292 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.0276 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.0870 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.0243 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.0323 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1-Dichloroethene | 1.04 | | 0.0370 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| cis-1,2-Dichloroethene | 329 | | 5.73 | 24.4 | 20000 | 08/29/2017 16:27 | WG1014254 |
| trans-1,2-Dichloroethene | 0.700 | | 0.0322 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.0437 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.0387 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.0253 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.0320 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.0326 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.0949 | 0.305 | 100 | 08/29/2017 14:46 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.0340 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Di-isopropyl ether | U | | 0.0303 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Ethylbenzene | 0.0750 | J | 0.0362 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.0417 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 2-Hexanone | U | | 0.167 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |
| n-Hexane | U | | 0.0354 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |

JC 9/18/2017

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| Iodomethane | U | | | 0.309 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |
| Isopropylbenzene | 0.0628 | J | J | 0.0296 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| p-Isopropyltoluene | 0.681 | | | 0.0249 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 2-Butanone (MEK) | U | | | 0.571 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |
| Methylene Chloride | U | | | 0.122 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | | 0.229 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |
| Methyl tert-butyl ether | U | | | 0.0259 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Naphthalene | 0.543 | J | J | 0.122 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| n-Propylbenzene | 0.170 | | | 0.0251 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Styrene | U | | | 0.0285 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | | 0.0322 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | | 0.0445 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | | 0.0445 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Tetrachloroethene | 933 | | | 6.73 | 24.4 | 20000 | 08/29/2017 16:27 | WG1014254 |
| Toluene | 0.166 | J | J | 0.0529 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | | 0.0373 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | | 0.0473 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1,1-Trichloroethane | U | | | 0.0349 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,1,2-Trichloroethane | U | | | 0.0338 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Trichloroethene | 113 | | | 6.81 | 24.4 | 20000 | 08/29/2017 16:27 | WG1014254 |
| Trichlorofluoromethane | U | | | 0.0466 | 0.610 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2,3-Trichloropropane | U | | | 0.0904 | 0.305 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2,4-Trimethylbenzene | 0.483 | | | 0.0257 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,2,3-Trimethylbenzene | 0.257 | | | 0.0350 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| 1,3,5-Trimethylbenzene | 0.159 | | | 0.0324 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Vinyl acetate | U | | | 0.292 | 1.22 | 100 | 08/29/2017 14:46 | WG1014254 |
| Vinyl chloride | 17.0 | | | 0.0355 | 0.122 | 100 | 08/29/2017 14:46 | WG1014254 |
| Xylenes, Total | 0.331 | J | J | 0.0851 | 0.366 | 100 | 08/29/2017 14:46 | WG1014254 |
| *(S) Toluene-d8* | *105* | | | | *80.0-120* | | *08/29/2017 14:46* | WG1014254 |
| *(S) Toluene-d8* | *104* | | | | *80.0-120* | | *08/29/2017 16:27* | WG1014254 |
| *(S) Dibromofluoromethane* | *99.6* | | | | *74.0-131* | | *08/29/2017 14:46* | WG1014254 |
| *(S) Dibromofluoromethane* | *100* | | | | *74.0-131* | | *08/29/2017 16:27* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *105* | | | | *64.0-132* | | *08/29/2017 14:46* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *99.8* | | | | *64.0-132* | | *08/29/2017 16:27* | WG1014254 |

JC 9/18/2017

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.8 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.277 | | 0.0386 | 0.114 | 1 | 08/29/2017 15:31 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.7* | | | *77.0-120* | | *08/29/2017 15:31* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.285 | 1.42 | 25 | 08/29/2017 15:11 | WG1014254 |
| Acrylonitrile | U | | 0.0510 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Benzene | U | | 0.00769 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Bromobenzene | U | | 0.00809 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Bromodichloromethane | U | | 0.00723 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Bromochloromethane | U | | 0.0111 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| Bromoform | U | | 0.0121 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Bromomethane | U | | 0.0382 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| n-Butylbenzene | U | | 0.00735 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| sec-Butylbenzene | U | | 0.00572 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| tert-Butylbenzene | U | | 0.00587 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Carbon disulfide | U | | 0.00629 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Carbon tetrachloride | U | | 0.00934 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Chlorobenzene | U | | 0.00604 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Chlorodibromomethane | U | | 0.0106 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Chloroethane | U | | 0.0269 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| Chloroform | U | | 0.00651 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| Chloromethane | U | | 0.0107 | 0.0712 | 25 | 08/29/2017 15:11 | WG1014254 |
| 2-Chlorotoluene | U | | 0.00857 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 4-Chlorotoluene | U | | 0.00683 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0298 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.00977 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Dibromomethane | U | | 0.0109 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.00868 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.00681 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.00644 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.0203 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.00567 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.00754 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1-Dichloroethene | U | | 0.00863 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| cis-1,2-Dichloroethene | 0.408 | | 0.00670 | 0.0285 | 25 | 08/29/2017 16:53 | WG1014254 |
| trans-1,2-Dichloroethene | U | | 0.00752 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.0102 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.00902 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.00590 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.00746 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.00761 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.0221 | 0.0712 | 25 | 08/29/2017 15:11 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.00795 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Di-isopropyl ether | U | | 0.00706 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Ethylbenzene | U | | 0.00845 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.00974 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 2-Hexanone | U | | 0.0390 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |
| n-Hexane | U | | 0.00826 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0720 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Isopropylbenzene | U | | 0.00692 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| p-Isopropyltoluene | U | | 0.00581 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.133 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Methylene Chloride | U | | 0.0285 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0535 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Methyl tert-butyl ether | U | | 0.00604 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Naphthalene | U | | 0.0285 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| n-Propylbenzene | U | | 0.00587 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Styrene | U | | 0.00666 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00752 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0104 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0104 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Tetrachloroethene | 1.73 | | 0.00786 | 0.0285 | 25 | 08/29/2017 16:53 | WG1014254 |
| Toluene | U | | 0.0123 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.00871 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.0110 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.00814 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.00788 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Trichloroethene | 0.461 | | 0.00795 | 0.0285 | 25 | 08/29/2017 16:53 | WG1014254 |
| Trichlorofluoromethane | U | | 0.0109 | 0.142 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.0211 | 0.0712 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2,4-Trimethylbenzene | U | | 0.00601 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.00818 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.00757 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Vinyl acetate | U | | 0.0681 | 0.285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Vinyl chloride | 0.0241 J | J | 0.00829 | 0.0285 | 25 | 08/29/2017 15:11 | WG1014254 |
| Xylenes, Total | U | | 0.0198 | 0.0854 | 25 | 08/29/2017 15:11 | WG1014254 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/29/2017 16:53* | WG1014254 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *08/29/2017 15:11* | WG1014254 |
| *(S) Dibromofluoromethane* | *98.5* | | | *74.0-131* | | *08/29/2017 15:11* | WG1014254 |
| *(S) Dibromofluoromethane* | *97.0* | | | *74.0-131* | | *08/29/2017 16:53* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *99.2* | | | *64.0-132* | | *08/29/2017 16:53* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *95.1* | | | *64.0-132* | | *08/29/2017 15:11* | WG1014254 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.2 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 10.4 | | 0.0360 | 0.106 | 1 | 08/29/2017 15:53 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.1* | | | *77.0-120* | | *08/29/2017 15:53* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0148 J | J JO | 0.0106 | 0.0531 | 1 | 08/28/2017 16:44 | WG1014254 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Benzene | U | | 0.000287 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Bromobenzene | U | | 0.000302 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Bromodichloromethane | U | | 0.000270 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Bromochloromethane | U | | 0.000414 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| Bromoform | U | | 0.000450 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Bromomethane | U | | 0.00142 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| n-Butylbenzene | 0.000805 J | J | 0.000274 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| sec-Butylbenzene | 0.000496 J | J | 0.000213 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| tert-Butylbenzene | 0.000237 J | J | 0.000219 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Carbon disulfide | 0.00300 | | 0.000235 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Carbon tetrachloride | U | | 0.000348 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Chlorobenzene | U | | 0.000225 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Chlorodibromomethane | U | | 0.000396 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Chloroethane | U | | 0.00100 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| Chloroform | U | | 0.000243 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| Chloromethane | U | | 0.000398 | 0.00266 | 1 | 08/28/2017 16:44 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000320 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000364 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Dibromomethane | U | | 0.000406 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000324 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000254 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000240 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000757 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000211 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000281 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1-Dichloroethene | 0.00227 | | 0.000322 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| cis-1,2-Dichloroethene | 1.98 | | 0.0125 | 0.0531 | 50 | 08/29/2017 13:20 | WG1014254 |
| trans-1,2-Dichloroethene | 0.00363 | | 0.000280 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000380 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000337 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000278 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000284 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000826 | 0.00266 | 1 | 08/28/2017 16:44 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000296 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Di-isopropyl ether | U | | 0.000263 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Ethylbenzene | U | | 0.000315 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000363 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 2-Hexanone | U | | 0.00146 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |
| n-Hexane | U | | 0.000308 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00269 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Isopropylbenzene | 0.000278 J | J | 0.000258 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| p-Isopropyltoluene | 0.00354 | | 0.000217 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00497 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Methylene Chloride | U | | 0.00106 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Methyl tert-butyl ether | U | | 0.000225 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Naphthalene | 0.00253 J | J | 0.00106 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| n-Propylbenzene | 0.000769 J | J | 0.000219 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Styrene | U | | 0.000249 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000280 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000388 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000388 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Tetrachloroethene | 109 | | 2.93 | 10.6 | 10000 | 08/29/2017 16:17 | WG1014254 |
| Toluene | 0.00159 J | J | 0.000461 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000412 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000304 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000294 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Trichloroethene | 2.90 | | 0.0149 | 0.0531 | 50 | 08/29/2017 13:20 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000406 | 0.00531 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000787 | 0.00266 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2,4-Trimethylbenzene | 0.00350 | | 0.000224 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,2,3-Trimethylbenzene | 0.00146 | | 0.000305 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| 1,3,5-Trimethylbenzene | 0.00114 | | 0.000283 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Vinyl acetate | U | | 0.00254 | 0.0106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Vinyl chloride | 0.0430 | | 0.000309 | 0.00106 | 1 | 08/28/2017 16:44 | WG1014254 |
| Xylenes, Total | 0.00135 J | J | 0.000741 | 0.00319 | 1 | 08/28/2017 16:44 | WG1014254 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/28/2017 16:44* | WG1014254 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/29/2017 13:20* | WG1014254 |
| *(S) Toluene-d8* | *100* | | | *80.0-120* | | *08/29/2017 16:17* | WG1014254 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/28/2017 16:44* | WG1014254 |
| *(S) Dibromofluoromethane* | *99.1* | | | *74.0-131* | | *08/29/2017 13:20* | WG1014254 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *08/29/2017 16:17* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/29/2017 16:17* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *64.0-132* | | *08/29/2017 13:20* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *112* | | | *64.0-132* | | *08/28/2017 16:44* | WG1014254 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.7 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.733 | | 0.0396 | 0.117 | 1 | 08/29/2017 16:15 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.4* | | | *77.0-120* | | *08/29/2017 16:15* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0117 | 0.0584 | 1 | 08/28/2017 17:04 | WG1014254 |
| Acrylonitrile | U | | 0.00209 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Benzene | U | | 0.000315 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Bromobenzene | U | | 0.000332 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Bromodichloromethane | U | | 0.000297 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Bromochloromethane | U | | 0.000455 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| Bromoform | U | | 0.000495 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Bromomethane | U | | 0.00156 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| n-Butylbenzene | U | | 0.000301 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| sec-Butylbenzene | U | | 0.000235 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| tert-Butylbenzene | U | | 0.000241 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Carbon disulfide | U | | 0.000258 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Carbon tetrachloride | U | | 0.000383 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Chlorobenzene | U | | 0.000248 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Chlorodibromomethane | U | | 0.000435 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Chloroethane | U | | 0.00110 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| Chloroform | U | | 0.000267 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| Chloromethane | U | | 0.000438 | 0.00292 | 1 | 08/28/2017 17:04 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000351 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000280 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00123 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000400 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Dibromomethane | U | | 0.000446 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000356 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000279 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000264 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000832 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000232 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000309 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1-Dichloroethene | 0.000661 | J J | 0.000354 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| cis-1,2-Dichloroethene | 0.154 | | 0.000274 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| trans-1,2-Dichloroethene | 0.000907 | J J | 0.000308 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000418 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000370 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000242 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000306 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000312 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000908 | 0.00292 | 1 | 08/28/2017 17:04 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000326 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Di-isopropyl ether | U | | 0.000290 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Ethylbenzene | U | | 0.000347 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000399 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 2-Hexanone | U | | 0.00160 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |
| n-Hexane | U | | 0.000339 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00295 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Isopropylbenzene | U | | 0.000284 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000238 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00546 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Methylene Chloride | U | | 0.00117 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00219 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Methyl tert-butyl ether | U | | 0.000248 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Naphthalene | U | | 0.00117 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| n-Propylbenzene | U | | 0.000241 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Styrene | U | | 0.000273 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000308 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000426 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000426 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Tetrachloroethene | 20.1 | | 0.322 | 1.17 | 1000 | 08/29/2017 16:56 | WG1014254 |
| Toluene | U | | 0.000507 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000357 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000453 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000334 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000323 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Trichloroethene | 0.0571 | | 0.000326 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000446 | 0.00584 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000865 | 0.00292 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2,4-Trimethylbenzene | 0.000439 J | J | 0.000246 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000335 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000311 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Vinyl acetate | U | | 0.00279 | 0.0117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Vinyl chloride | 0.00962 | | 0.000340 | 0.00117 | 1 | 08/28/2017 17:04 | WG1014254 |
| Xylenes, Total | U | | 0.000815 | 0.00350 | 1 | 08/28/2017 17:04 | WG1014254 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/29/2017 16:56* | WG1014254 |
| *(S) Toluene-d8* | *98.2* | | | *80.0-120* | | *08/28/2017 17:04* | WG1014254 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/28/2017 17:04* | WG1014254 |
| *(S) Dibromofluoromethane* | *99.4* | | | *74.0-131* | | *08/29/2017 16:56* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *08/28/2017 17:04* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/29/2017 16:56* | WG1014254 |

JC 9/18/2017

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9/18/201
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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.8 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 4.34 | | 0.0404 | 0.119 | 1 | 08/29/2017 16:37 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* | | *08/29/2017 16:37* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0119 | 0.0596 | 1 | 08/28/2017 17:23 | WG1014254 |
| Acrylonitrile | U | | 0.00213 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Benzene | U | | 0.000322 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Bromobenzene | U | | 0.000339 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Bromodichloromethane | U | | 0.000303 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Bromochloromethane | U | | 0.000465 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| Bromoform | U | | 0.000506 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Bromomethane | U | | 0.00160 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| n-Butylbenzene | U | | 0.000308 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| sec-Butylbenzene | U | | 0.000240 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| tert-Butylbenzene | U | | 0.000246 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Carbon disulfide | U | | 0.000264 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Carbon tetrachloride | U | | 0.000391 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Chlorobenzene | U | | 0.000253 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Chlorodibromomethane | U | | 0.000445 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Chloroethane | U | | 0.00113 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| Chloroform | U | | 0.000273 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| Chloromethane | U | | 0.000447 | 0.00298 | 1 | 08/28/2017 17:23 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000359 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000286 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000409 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Dibromomethane | U | | 0.000456 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000364 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000285 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000270 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000850 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000237 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000316 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1-Dichloroethene | 0.0119 | | 0.000361 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| cis-1,2-Dichloroethene | 12.8 | | 0.147 | 0.626 | 525 | 08/29/2017 17:16 | WG1014254 |
| trans-1,2-Dichloroethene | 0.00769 | | 0.000315 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000427 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000378 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000247 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000312 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000318 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000928 | 0.00298 | 1 | 08/28/2017 17:23 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000333 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Di-isopropyl ether | U | | 0.000296 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Ethylbenzene | U | | 0.000354 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000408 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 2-Hexanone | U | | 0.00163 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |
| n-Hexane | U | | 0.000346 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |

JC 9/18/2017

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00302 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Isopropylbenzene | U | | 0.000290 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000243 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00558 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Methylene Chloride | U | | 0.00119 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00224 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Methyl tert-butyl ether | U | | 0.000253 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Naphthalene | U | | 0.00119 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| n-Propylbenzene | U | | 0.000246 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Styrene | U | | 0.000279 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000315 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000435 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000435 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Tetrachloroethene | 10.6 | | 0.173 | 0.626 | 525 | 08/29/2017 17:16 | WG1014254 |
| Toluene | U | | 0.000518 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000365 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000463 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000341 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000330 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Trichloroethene | 2.71 | | 0.0174 | 0.0626 | 52.5 | 08/29/2017 14:39 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000456 | 0.00596 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000884 | 0.00298 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2,4-Trimethylbenzene | 0.000329 | J J | 0.000252 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000342 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000317 | 0.00119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Vinyl acetate | U | | 0.00285 | 0.0119 | 1 | 08/28/2017 17:23 | WG1014254 |
| Vinyl chloride | 0.405 | | 0.0182 | 0.0626 | 52.5 | 08/29/2017 14:39 | WG1014254 |
| Xylenes, Total | U | | 0.000832 | 0.00358 | 1 | 08/28/2017 17:23 | WG1014254 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/29/2017 14:39* | WG1014254 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/29/2017 17:16* | WG1014254 |
| *(S) Toluene-d8* | *95.8* | | | *80.0-120* | | *08/28/2017 17:23* | WG1014254 |
| *(S) Dibromofluoromethane* | *98.1* | | | *74.0-131* | | *08/29/2017 14:39* | WG1014254 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *08/28/2017 17:23* | WG1014254 |
| *(S) Dibromofluoromethane* | *94.4* | | | *74.0-131* | | *08/29/2017 17:16* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *08/29/2017 17:16* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *08/28/2017 17:23* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/29/2017 14:39* | WG1014254 |

JC 9/18/2017

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.2 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 5.09 | | 0.0406 | 0.120 | 1.01 | 08/29/2017 17:00 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.8* | | | *77.0-120* | | *08/29/2017 17:00* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0119 | 0.0594 | 1 | 08/28/2017 17:43 | WG1014254 |
| Acrylonitrile | U | | 0.00213 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Benzene | U | | 0.000321 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Bromobenzene | U | | 0.000337 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Bromodichloromethane | U | | 0.000302 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Bromochloromethane | U | | 0.000463 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| Bromoform | U | | 0.000503 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Bromomethane | U | | 0.00159 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| n-Butylbenzene | U | | 0.000306 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| sec-Butylbenzene | U | | 0.000239 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| tert-Butylbenzene | U | | 0.000245 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Carbon disulfide | 0.00207 | | 0.000262 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Carbon tetrachloride | U | | 0.000389 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Chlorobenzene | U | | 0.000252 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Chlorodibromomethane | U | | 0.000443 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Chloroethane | U | | 0.00112 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| Chloroform | U | | 0.000272 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| Chloromethane | U | | 0.000445 | 0.00297 | 1 | 08/28/2017 17:43 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000357 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000285 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000407 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Dibromomethane | U | | 0.000454 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000362 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000284 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000268 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000847 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000236 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000315 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1-Dichloroethene | 0.00157 | | 0.000360 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| cis-1,2-Dichloroethene | 5.35 | | 0.0198 | 0.0843 | 71 | 08/29/2017 14:58 | WG1014254 |
| trans-1,2-Dichloroethene | 0.00859 | | 0.000313 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000425 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000376 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000246 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000311 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000317 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000924 | 0.00297 | 1 | 08/28/2017 17:43 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000331 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Di-isopropyl ether | U | | 0.000294 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Ethylbenzene | U | | 0.000353 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000406 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 2-Hexanone | U | | 0.00163 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |
| n-Hexane | U | | 0.000344 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00300 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Isopropylbenzene | U | | 0.000289 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000242 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00556 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Methylene Chloride | U | | 0.00119 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00223 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Methyl tert-butyl ether | U | | 0.000252 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Naphthalene | U | | 0.00119 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| n-Propylbenzene | U | | 0.000245 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Styrene | U | | 0.000278 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000313 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000433 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000433 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Tetrachloroethene | 69.7 | | 2.33 | 8.43 | 7100 | 08/29/2017 17:35 | WG1014254 |
| Toluene | U | | 0.000515 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000363 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000461 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000340 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000329 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Trichloroethene | 3.10 | | 0.0235 | 0.0843 | 71 | 08/29/2017 14:58 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000454 | 0.00594 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000880 | 0.00297 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2,4-Trimethylbenzene | 0.000717 J | J | 0.000251 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000341 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000316 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Vinyl acetate | U | | 0.00284 | 0.0119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Vinyl chloride | 0.00963 | | 0.000345 | 0.00119 | 1 | 08/28/2017 17:43 | WG1014254 |
| Xylenes, Total | U | | 0.000829 | 0.00356 | 1 | 08/28/2017 17:43 | WG1014254 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *08/29/2017 17:35* | WG1014254 |
| *(S) Toluene-d8* | *98.7* | | | *80.0-120* | | *08/28/2017 17:43* | WG1014254 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *08/29/2017 14:58* | WG1014254 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *08/29/2017 14:58* | WG1014254 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/28/2017 17:43* | WG1014254 |
| *(S) Dibromofluoromethane* | *99.7* | | | *74.0-131* | | *08/29/2017 17:35* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *08/29/2017 17:35* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *64.0-132* | | *08/28/2017 17:43* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/29/2017 14:58* | WG1014254 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.1 | | 1 | 08/31/2017 12:03 | WG1015517 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.157 | | 0.0368 | 0.109 | 1 | 08/29/2017 17:22 | WG1014739 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.0* | | | *77.0-120* | | *08/29/2017 17:22* | WG1014739 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0148 J | J J0 | 0.0109 | 0.0543 | 1 | 08/28/2017 18:03 | WG1014254 |
| Acrylonitrile | U | | 0.00194 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Benzene | U | | 0.000293 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Bromochloromethane | U | | 0.000424 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| Bromoform | U | | 0.000461 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Bromomethane | U | | 0.00146 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| n-Butylbenzene | U | | 0.000280 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| sec-Butylbenzene | U | | 0.000218 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Carbon disulfide | 0.00114 | | 0.000240 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Carbon tetrachloride | U | | 0.000356 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Chlorobenzene | U | | 0.000230 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Chlorodibromomethane | U | | 0.000405 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Chloroethane | U | | 0.00103 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| Chloroform | U | | 0.000249 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| Chloromethane | U | | 0.000407 | 0.00272 | 1 | 08/28/2017 18:03 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000327 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000373 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Dibromomethane | U | | 0.000415 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000775 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1-Dichloroethene | U | | 0.000329 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| cis-1,2-Dichloroethene | 0.0594 | | 0.00759 | 0.0323 | 29.75 | 08/29/2017 15:18 | WG1014254 |
| trans-1,2-Dichloroethene | U | | 0.000287 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000389 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000344 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000845 | 0.00272 | 1 | 08/28/2017 18:03 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Di-isopropyl ether | U | | 0.000269 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000372 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |
| n-Hexane | 0.00123 J | J | 0.000315 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Isopropylbenzene | U | | 0.000264 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00508 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Methylene Chloride | U | | 0.00109 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Methyl tert-butyl ether | U | | 0.000230 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Naphthalene | U | | 0.00109 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Styrene | U | | 0.000254 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000397 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000397 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Tetrachloroethene | 8.68 | | 0.178 | 0.646 | 595 | 08/29/2017 17:55 | WG1014254 |
| Toluene | U | | 0.000471 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000421 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000311 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000301 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Trichloroethene | 0.0673 | | 0.00902 | 0.0323 | 29.75 | 08/29/2017 15:18 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000415 | 0.00543 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000805 | 0.00272 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2,4-Trimethylbenzene | U | | 0.000229 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000312 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Vinyl chloride | 0.00105 | J J | 0.000316 | 0.00109 | 1 | 08/28/2017 18:03 | WG1014254 |
| Xylenes, Total | U | | 0.000758 | 0.00326 | 1 | 08/28/2017 18:03 | WG1014254 |
| *(S) Toluene-d8* | *96.3* | | | *80.0-120* | | *08/29/2017 15:18* | WG1014254 |
| *(S) Toluene-d8* | *98.9* | | | *80.0-120* | | *08/28/2017 18:03* | WG1014254 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/29/2017 17:55* | WG1014254 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *08/28/2017 18:03* | WG1014254 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *08/29/2017 15:18* | WG1014254 |
| *(S) Dibromofluoromethane* | *99.1* | | | *74.0-131* | | *08/29/2017 17:55* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/29/2017 15:18* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *08/29/2017 17:55* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *08/28/2017 18:03* | WG1014254 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.4 | | 1 | 08/31/2017 10:33 | WG1015137 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0135 J | J J0 | 0.0113 | 0.0565 | 1 | 08/28/2017 18:22 | WG1014254 |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Benzene | U | | 0.000305 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Bromobenzene | U | | 0.000321 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Bromodichloromethane | U | | 0.000287 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Bromochloromethane | U | | 0.000441 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| Bromoform | U | | 0.000480 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Bromomethane | U | | 0.00152 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| n-Butylbenzene | U | | 0.000292 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| sec-Butylbenzene | U | | 0.000227 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| tert-Butylbenzene | U | | 0.000233 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Carbon disulfide | 0.000864 J | J | 0.000250 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Carbon tetrachloride | U | | 0.000371 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Chlorobenzene | U | | 0.000240 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Chlorodibromomethane | U | | 0.000422 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Chloroethane | U | | 0.00107 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| Chloroform | U | | 0.000259 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| Chloromethane | U | | 0.000424 | 0.00283 | 1 | 08/28/2017 18:22 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000340 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000271 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000388 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Dibromomethane | U | | 0.000432 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000270 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000806 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000300 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1-Dichloroethene | 0.000572 J | J | 0.000343 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| cis-1,2-Dichloroethene | 0.152 | | 0.000266 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| trans-1,2-Dichloroethene | 0.00577 | | 0.000299 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000405 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000359 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000296 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000302 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000880 | 0.00283 | 1 | 08/28/2017 18:22 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000316 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Di-isopropyl ether | U | | 0.000280 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Ethylbenzene | U | | 0.000336 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000387 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |
| n-Hexane | 0.000628 J | J | 0.000328 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Iodomethane | U | | 0.00286 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Isopropylbenzene | U | | 0.000275 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000231 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00529 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Methylene Chloride | U | | 0.00113 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00213 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000240 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Naphthalene | U | | 0.00113 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| n-Propylbenzene | U | | 0.000233 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Styrene | U | | 0.000265 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000299 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000413 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000413 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Tetrachloroethene | 0.407 | J | 0.00780 | 0.0283 | 25 | 08/29/2017 18:14 | WG1014254 |
| Toluene | U | | 0.000491 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000439 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000323 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000313 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Trichloroethene | 0.00118 | | 0.000316 | 0.00113 | 1 | 08/29/2017 15:38 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000432 | 0.00565 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000838 | 0.00283 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2,4-Trimethylbenzene | U | | 0.000239 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000325 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000301 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Vinyl acetate | U | | 0.00270 | 0.0113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Vinyl chloride | 0.00719 | | 0.000329 | 0.00113 | 1 | 08/28/2017 18:22 | WG1014254 |
| Xylenes, Total | U | | 0.000789 | 0.00339 | 1 | 08/28/2017 18:22 | WG1014254 |
| *(S) Toluene-d8* | *93.6* | | | *80.0-120* | | *08/29/2017 15:38* | WG1014254 |
| *(S) Toluene-d8* | *98.1* | | | *80.0-120* | | *08/29/2017 18:14* | WG1014254 |
| *(S) Toluene-d8* | *96.3* | | | *80.0-120* | | *08/28/2017 18:22* | WG1014254 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/29/2017 15:38* | WG1014254 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/29/2017 18:14* | WG1014254 |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* | | *08/28/2017 18:22* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *08/29/2017 18:14* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/28/2017 18:22* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *64.0-132* | | *08/29/2017 15:38* | WG1014254 |

JC 9/18/2017

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.6 | | 1 | 08/30/2017 16:41 | WG1015141 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0118 | 0.0591 | 1 | 08/28/2017 18:42 | WG1014254 |
| Acrylonitrile | U | | 0.00212 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Benzene | U | | 0.000319 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Bromobenzene | U | | 0.000336 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Bromodichloromethane | U | | 0.000300 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Bromochloromethane | U | | 0.000461 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| Bromoform | U | | 0.000501 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Bromomethane | U | | 0.00158 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| n-Butylbenzene | U | | 0.000305 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| sec-Butylbenzene | U | | 0.000238 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| tert-Butylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Carbon disulfide | U | | 0.000261 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Carbon tetrachloride | U | | 0.000388 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Chlorobenzene | U | | 0.000251 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Chlorodibromomethane | U | | 0.000441 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Chloroethane | U | | 0.00112 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| Chloroform | U | | 0.000271 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| Chloromethane | U | | 0.000443 | 0.00295 | 1 | 08/28/2017 18:42 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000356 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000284 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000405 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Dibromomethane | U | | 0.000451 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000360 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000282 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000267 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000843 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000235 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000313 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1-Dichloroethene | 0.00125 | | 0.000358 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| cis-1,2-Dichloroethene | 0.0257 | | 0.000278 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| trans-1,2-Dichloroethene | 0.000708 J | J | 0.000312 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000423 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000375 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000245 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000310 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000316 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000920 | 0.00295 | 1 | 08/28/2017 18:42 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000330 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Di-isopropyl ether | U | | 0.000293 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Ethylbenzene | U | | 0.000351 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000404 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 2-Hexanone | U | | 0.00162 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |
| n-Hexane | U | | 0.000343 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Iodomethane | U | | 0.00299 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Isopropylbenzene | U | | 0.000287 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000241 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00553 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Methylene Chloride | U | | 0.00118 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00222 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000251 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Naphthalene | U | | 0.00118 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Styrene | U | | 0.000277 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000312 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000431 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000431 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Tetrachloroethene | U | | 0.00816 | 0.0295 | 25 | 08/29/2017 18:34 | WG1014254 |
| Toluene | U | | 0.000513 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000362 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000459 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000338 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000327 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Trichloroethene | 0.000689 J | J | 0.000330 | 0.00118 | 1 | 08/29/2017 15:57 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000451 | 0.00591 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000876 | 0.00295 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000339 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000314 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Vinyl chloride | 0.00270 | | 0.000344 | 0.00118 | 1 | 08/28/2017 18:42 | WG1014254 |
| Xylenes, Total | U | | 0.000825 | 0.00355 | 1 | 08/28/2017 18:42 | WG1014254 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *08/29/2017 18:34* | WG1014254 |
| *(S) Toluene-d8* | *97.0* | | | *80.0-120* | | *08/28/2017 18:42* | WG1014254 |
| *(S) Toluene-d8* | *93.8* | | | *80.0-120* | | *08/29/2017 15:57* | WG1014254 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *08/28/2017 18:42* | WG1014254 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *08/29/2017 15:57* | WG1014254 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *08/29/2017 18:34* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/28/2017 18:42* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *08/29/2017 18:34* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *08/29/2017 15:57* | WG1014254 |

**Sample Narrative:**

L932059-09 WG1014254: No stir bars remain for analysis.

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.9 | | 1 | 08/30/2017 16:41 | WG1015141 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0123 J | J J0 | 0.0109 | 0.0544 | 1 | 08/28/2017 19:01 | WG1014254 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Bromochloromethane | U | | 0.000424 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| Bromoform | U | | 0.000461 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Bromomethane | U | | 0.00146 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Carbon disulfide | 0.00136 | | 0.000240 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Carbon tetrachloride | U | | 0.000357 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Chlorodibromomethane | U | | 0.000406 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Chloroethane | U | | 0.00103 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| Chloroform | U | | 0.000249 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| Chloromethane | U | | 0.000408 | 0.00272 | 1 | 08/28/2017 19:01 | WG1014254 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2-Dibromoethane | U | | 0.000373 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Dibromomethane | U | | 0.000416 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Dichlorodifluoromethane | U | | 0.000776 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1-Dichloroethene | 0.000656 J | J | 0.000330 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| cis-1,2-Dichloroethene | 0.160 | | 0.000256 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| trans-1,2-Dichloroethene | 0.00656 | | 0.000287 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| trans-1,4-Dichloro-2-butene | U | | 0.000847 | 0.00272 | 1 | 08/28/2017 19:01 | WG1014254 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Hexachloro-1,3-butadiene | U | | 0.000372 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |
| n-Hexane | 0.000803 J | J | 0.000316 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Isopropylbenzene | U | | 0.000264 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 2-Butanone (MEK) | U | | 0.00509 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Methylene Chloride | U | | 0.00109 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Naphthalene | U | | 0.00109 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000397 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000397 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Tetrachloroethene | 0.0109 | J | 0.000300 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Toluene | U | | 0.000472 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2,3-Trichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2,4-Trichlorobenzene | U | | 0.000422 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1,1-Trichloroethane | U | | 0.000311 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,1,2-Trichloroethane | U | | 0.000301 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Trichloroethene | 0.00162 | | 0.000304 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Trichlorofluoromethane | U | | 0.000416 | 0.00544 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2,3-Trichloropropane | U | | 0.000806 | 0.00272 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,2,3-Trimethylbenzene | U | | 0.000312 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Vinyl chloride | 0.00719 | | 0.000317 | 0.00109 | 1 | 08/28/2017 19:01 | WG1014254 |
| Xylenes, Total | U | | 0.000760 | 0.00326 | 1 | 08/28/2017 19:01 | WG1014254 |
| *(S) Toluene-d8* | *97.2* | | | *80.0-120* | | *08/28/2017 19:01* | WG1014254 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *08/28/2017 19:01* | WG1014254 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *08/28/2017 19:01* | WG1014254 |

JC 9/18/2017

# ANALYTICAL REPORT

September 06, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L932260 |
| Samples Received: | 08/26/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## MW-135-65 L932260-01 Solid

Collected by: Shannon McKernan | Collected date/time: 08/24/17 13:50 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015695 | 1 | 08/31/17 14:52 | 08/31/17 15:04 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014832 | 1 | 08/24/17 13:50 | 08/29/17 20:27 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/24/17 13:50 | 08/31/17 23:13 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 09/01/17 13:30 | 09/02/17 13:26 | BMB |

## B-208-50 L932260-02 Solid

Collected by: Shannon McKernan | Collected date/time: 08/24/17 14:05 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015508 | 1 | 08/31/17 12:56 | 08/31/17 13:09 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/24/17 14:05 | 08/31/17 23:30 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/24/17 14:05 | 09/02/17 13:46 | BMB |

## B-208-60 L932260-03 Solid

Collected by: Shannon McKernan | Collected date/time: 08/24/17 14:35 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015511 | 1 | 08/31/17 14:14 | 08/31/17 14:27 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/24/17 14:35 | 08/31/17 23:47 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/24/17 14:35 | 09/02/17 14:07 | BMB |

## MW-135-80 L932260-04 Solid

Collected by: Shannon McKernan | Collected date/time: 08/24/17 14:50 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015695 | 1 | 08/31/17 14:52 | 08/31/17 15:04 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014832 | 1 | 08/24/17 14:50 | 08/29/17 20:49 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/24/17 14:50 | 09/01/17 00:05 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 25 | 08/24/17 14:50 | 09/02/17 14:28 | BMB |

## B-208-70 L932260-05 Solid

Collected by: Shannon McKernan | Collected date/time: 08/24/17 15:25 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015511 | 1 | 08/31/17 14:14 | 08/31/17 14:27 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/24/17 15:25 | 09/01/17 00:22 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/24/17 15:25 | 09/02/17 14:48 | BMB |

## B-208-80 L932260-06 Solid

Collected by: Shannon McKernan | Collected date/time: 08/24/17 16:10 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015511 | 1 | 08/31/17 14:14 | 08/31/17 14:27 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/24/17 16:10 | 09/01/17 01:02 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/24/17 16:10 | 09/02/17 15:09 | BMB |

## B-209-20 L932260-07 Solid

Collected by: Shannon McKernan | Collected date/time: 08/25/17 09:00 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015511 | 1 | 08/31/17 14:14 | 08/31/17 14:27 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/25/17 09:00 | 09/01/17 01:19 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/25/17 09:00 | 09/02/17 15:29 | BMB |

## B-209-35 L932260-08 Solid

Collected by: Shannon McKernan | Collected date/time: 08/25/17 10:05 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015511 | 1 | 08/31/17 14:14 | 08/31/17 14:27 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/25/17 10:05 | 09/01/17 01:39 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/25/17 10:05 | 09/02/17 15:50 | BMB |

## B-207-30 L932260-09 Solid

Collected by: Shannon McKernan | Collected date/time: 08/25/17 10:30 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015695 | 1 | 08/31/17 14:52 | 08/31/17 15:04 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014832 | 1 | 08/25/17 10:30 | 09/01/17 04:16 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 25 | 08/25/17 10:30 | 09/01/17 01:57 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 25 | 08/25/17 10:30 | 09/02/17 16:11 | BMB |

## B-209-50 L932260-10 Solid

Collected by: Shannon McKernan | Collected date/time: 08/25/17 10:50 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015511 | 1 | 08/31/17 14:14 | 08/31/17 14:27 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/25/17 10:50 | 09/01/17 02:15 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/25/17 10:50 | 09/02/17 16:32 | BMB |

## B-209-60 L932260-11 Solid

Collected by: Shannon McKernan | Collected date/time: 08/25/17 11:35 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015509 | 1 | 08/31/17 11:10 | 08/31/17 11:22 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/25/17 11:35 | 09/01/17 02:32 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/25/17 11:35 | 09/02/17 16:52 | BMB |

## B-207-41 L932260-12 Solid

Collected by: Shannon McKernan | Collected date/time: 08/25/17 11:50 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015695 | 1 | 08/31/17 14:52 | 08/31/17 15:04 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014832 | 1 | 08/25/17 11:50 | 08/29/17 21:32 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/25/17 11:50 | 09/01/17 02:49 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 50 | 08/25/17 11:50 | 09/02/17 17:13 | BMB |

## B-207-49 L932260-13 Solid

Collected by: Shannon McKernan | Collected date/time: 08/25/17 12:10 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015695 | 1 | 08/31/17 14:52 | 08/31/17 15:04 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014832 | 1 | 08/25/17 12:10 | 08/29/17 21:54 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/25/17 12:10 | 09/01/17 05:25 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 25 | 08/25/17 12:10 | 09/02/17 17:33 | BMB |

## B-209-70 L932260-14 Solid

Collected by: Shannon McKernan | Collected date/time: 08/25/17 14:05 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015511 | 1 | 08/31/17 14:14 | 08/31/17 14:27 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/25/17 14:05 | 09/01/17 05:43 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1.29 | 08/25/17 14:05 | 09/02/17 17:54 | BMB |

## B-209-75 L932260-15 Solid

Collected by: Shannon McKernan | Collected date/time: 08/25/17 14:10 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015509 | 1 | 08/31/17 11:10 | 08/31/17 11:22 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/25/17 14:10 | 09/01/17 06:00 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015912 | 1 | 08/25/17 14:10 | 09/02/17 18:14 | BMB |

## B-209-80 L932260-16 Solid

Collected by: Shannon McKernan | Collected date/time: 08/25/17 14:20 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015509 | 1 | 08/31/17 11:10 | 08/31/17 11:22 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014887 | 1 | 08/25/17 14:20 | 08/31/17 02:05 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014887 | 1 | 08/25/17 14:20 | 09/04/17 15:58 | JHH |

## B-207-55 L932260-17 Solid

Collected by: Shannon McKernan | Collected date/time: 08/25/17 14:20 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015695 | 1 | 08/31/17 14:52 | 08/31/17 15:04 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014832 | 1 | 08/25/17 14:20 | 08/29/17 22:24 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014887 | 1 | 08/25/17 14:20 | 08/31/17 02:25 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014887 | 65.5 | 08/25/17 14:20 | 09/04/17 16:18 | JHH |

## B-207-60 L932260-18 Solid

Collected by: Shannon McKernan | Collected date/time: 08/25/17 14:45 | Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015695 | 1 | 08/31/17 14:52 | 08/31/17 15:04 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014832 | 1 | 08/25/17 14:45 | 08/29/17 22:46 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014887 | 1 | 08/25/17 14:45 | 08/31/17 02:46 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014887 | 25 | 08/25/17 14:45 | 09/04/17 16:37 | JHH |

## B-207-70 L932260-19 Solid

Collected by: Shannon McKernan
Collected date/time: 08/25/17 15:10
Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015695 | 1 | 08/31/17 14:52 | 08/31/17 15:04 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014942 | 25 | 08/25/17 15:10 | 09/02/17 02:06 | GLN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014887 | 1 | 08/25/17 15:10 | 08/31/17 03:07 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014887 | 25 | 08/25/17 15:10 | 09/04/17 16:57 | JHH |

## B-207-80 L932260-20 Solid

Collected by: Shannon McKernan
Collected date/time: 08/25/17 15:50
Received date/time: 08/26/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1015695 | 1 | 08/31/17 14:52 | 08/31/17 15:04 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1014942 | 25 | 08/25/17 15:50 | 09/02/17 02:28 | GLN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014887 | 1 | 08/25/17 15:50 | 08/31/17 03:27 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014887 | 100 | 08/25/17 15:50 | 09/04/17 17:17 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1014887 | 1000 | 08/25/17 15:50 | 09/05/17 17:16 | BMB |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.3 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.161 | B | 0.0402 | 0.119 | 1 | 08/29/2017 20:27 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *08/29/2017 20:27* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0119 | 0.0593 | 1 | 08/31/2017 23:13 | WG1015912 |
| Acrylonitrile | U | | 0.00212 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Benzene | U | | 0.000320 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Bromobenzene | U | | 0.000337 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Bromodichloromethane | U | | 0.000301 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Bromochloromethane | U | | 0.000463 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| Bromoform | U | J0 | 0.000503 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Bromomethane | U | | 0.00159 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| n-Butylbenzene | U | | 0.000306 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| sec-Butylbenzene | U | | 0.000239 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| tert-Butylbenzene | U | | 0.000244 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Carbon disulfide | 0.00101 | J | 0.000262 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Carbon tetrachloride | U | | 0.000389 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Chlorobenzene | U | | 0.000252 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Chlorodibromomethane | U | | 0.000443 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Chloroethane | U | | 0.00112 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| Chloroform | U | | 0.000272 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| Chloromethane | U | | 0.000445 | 0.00297 | 1 | 08/31/2017 23:13 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000357 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000285 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000407 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Dibromomethane | U | | 0.000453 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000362 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000284 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000268 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000846 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000236 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000314 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000360 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| cis-1,2-Dichloroethene | 0.0170 | | 0.000279 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000313 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000425 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000376 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000246 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000311 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000317 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000923 | 0.00297 | 1 | 08/31/2017 23:13 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000331 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Di-isopropyl ether | U | | 0.000294 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Ethylbenzene | U | | 0.000352 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000406 | 0.00119 | 1 | 09/02/2017 13:26 | WG1015912 |
| 2-Hexanone | U | J0 | 0.00163 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |
| n-Hexane | U | | 0.000344 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00300 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Isopropylbenzene | U | | 0.000288 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000242 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 2-Butanone (MEK) | U | J0 | 0.00555 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Methylene Chloride | U | | 0.00119 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00223 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Methyl tert-butyl ether | U | | 0.000252 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Naphthalene | U | | 0.00119 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| n-Propylbenzene | U | | 0.000244 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Styrene | U | | 0.000278 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000313 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000433 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000433 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Tetrachloroethene | 0.190 | | 0.000328 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Toluene | U | | 0.000515 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000363 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000460 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000339 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000329 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Trichloroethene | 0.00881 | | 0.000331 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000453 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000879 | 0.00297 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000250 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000341 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000316 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Vinyl acetate | U | | 0.00284 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Vinyl chloride | U | | 0.000345 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Xylenes, Total | U | | 0.000828 | 0.00356 | 1 | 08/31/2017 23:13 | WG1015912 |
| *(S) Toluene-d8* | *99.0* | | | *80.0-120* | | *08/31/2017 23:13* | WG1015912 |
| *(S) Toluene-d8* | *99.9* | | | *80.0-120* | | *09/02/2017 13:26* | WG1015912 |
| *(S) Dibromofluoromethane* | *94.7* | | | *74.0-131* | | *09/02/2017 13:26* | WG1015912 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/31/2017 23:13* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *98.6* | | | *64.0-132* | | *08/31/2017 23:13* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *92.2* | | | *64.0-132* | | *09/02/2017 13:26* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.6 | | 1 | 08/31/2017 13:09 | WG1015508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0110 | 0.0552 | 1 | 08/31/2017 23:30 | WG1015912 |
| Acrylonitrile | U | | 0.00198 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Benzene | U | | 0.000298 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Bromobenzene | U | | 0.000314 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Bromochloromethane | U | | 0.000431 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| Bromoform | U | J0 | 0.000468 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Bromomethane | U | | 0.00148 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| n-Butylbenzene | U | | 0.000285 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| sec-Butylbenzene | U | | 0.000222 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Carbon disulfide | 0.000930 | J | 0.000244 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Carbon tetrachloride | U | | 0.000362 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Chlorodibromomethane | U | | 0.000412 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Chloroethane | U | | 0.00104 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| Chloroform | U | | 0.000253 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| Chloromethane | U | | 0.000414 | 0.00276 | 1 | 08/31/2017 23:30 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000265 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000379 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Dibromomethane | U | | 0.000422 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000264 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000250 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000787 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000220 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000293 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1-Dichloroethene | 0.000389 | J | 0.000335 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| cis-1,2-Dichloroethene | 0.0739 | | 0.000259 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| trans-1,2-Dichloroethene | 0.00455 | | 0.000291 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000395 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000350 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000229 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000295 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000859 | 0.00276 | 1 | 08/31/2017 23:30 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000308 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Di-isopropyl ether | U | | 0.000274 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Ethylbenzene | U | | 0.000328 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000378 | 0.00110 | 1 | 09/02/2017 13:46 | WG1015912 |
| 2-Hexanone | U | J0 | 0.00151 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |
| n-Hexane | U | | 0.000320 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 2-Butanone (MEK) | U | J0 | 0.00517 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Methylene Chloride | U | | 0.00110 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00208 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000234 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Naphthalene | U | | 0.00110 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000291 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000403 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000403 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Tetrachloroethene | 0.00150 | | 0.000305 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Toluene | U | | 0.000479 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000338 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000428 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000316 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000306 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Trichloroethene | U | | 0.000308 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000422 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000818 | 0.00276 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000233 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000317 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000294 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Vinyl acetate | U | | 0.00264 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Vinyl chloride | U | | 0.000321 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Xylenes, Total | U | | 0.000771 | 0.00331 | 1 | 08/31/2017 23:30 | WG1015912 |
| *(S) Toluene-d8* | *95.4* | | | *80.0-120* | | *08/31/2017 23:30* | WG1015912 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/02/2017 13:46* | WG1015912 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/31/2017 23:30* | WG1015912 |
| *(S) Dibromofluoromethane* | *92.1* | | | *74.0-131* | | *09/02/2017 13:46* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *91.6* | | | *64.0-132* | | *09/02/2017 13:46* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *99.2* | | | *64.0-132* | | *08/31/2017 23:30* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.8 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0227 | J JO | 0.0111 | 0.0557 | 1 | 08/31/2017 23:47 | WG1015912 |
| Acrylonitrile | U | | 0.00199 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Benzene | 0.000440 | J | 0.000301 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Bromobenzene | U | | 0.000316 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Bromodichloromethane | U | | 0.000283 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Bromochloromethane | U | | 0.000434 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| Bromoform | U | JO | 0.000472 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Bromomethane | U | | 0.00149 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| n-Butylbenzene | U | | 0.000287 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| sec-Butylbenzene | U | | 0.000224 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| tert-Butylbenzene | U | | 0.000229 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Carbon disulfide | 0.00232 | | 0.000246 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Carbon tetrachloride | U | | 0.000365 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Chlorobenzene | U | | 0.000236 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Chlorodibromomethane | U | | 0.000415 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Chloroethane | U | | 0.00105 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| Chloroform | U | | 0.000255 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| Chloromethane | U | | 0.000418 | 0.00278 | 1 | 08/31/2017 23:47 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000335 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000267 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000382 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Dibromomethane | U | | 0.000425 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000340 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000266 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000794 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000295 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000337 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| cis-1,2-Dichloroethene | 0.000685 | J | 0.000262 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000294 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000399 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000353 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000292 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000297 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | JO | 0.000866 | 0.00278 | 1 | 08/31/2017 23:47 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000311 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Di-isopropyl ether | U | | 0.000276 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Ethylbenzene | U | | 0.000331 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000381 | 0.00111 | 1 | 09/02/2017 14:07 | WG1015912 |
| 2-Hexanone | U | JO | 0.00153 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |
| n-Hexane | 0.0298 | | 0.000323 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Iodomethane | U | | 0.00282 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Isopropylbenzene | U | | 0.000271 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000227 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 2-Butanone (MEK) | U | JO | 0.00521 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Methylene Chloride | U | | 0.00111 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00209 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000236 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Naphthalene | U | | 0.00111 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| n-Propylbenzene | U | | 0.000229 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Styrene | U | | 0.000261 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000294 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000406 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000406 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Tetrachloroethene | U | | 0.000307 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Toluene | U | | 0.000483 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000341 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000432 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000318 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000308 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Trichloroethene | U | | 0.000311 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000425 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000825 | 0.00278 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000235 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000296 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Vinyl acetate | U | | 0.00266 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Vinyl chloride | U | | 0.000324 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Xylenes, Total | U | | 0.000777 | 0.00334 | 1 | 08/31/2017 23:47 | WG1015912 |
| *(S) Toluene-d8* | *95.6* | | | *80.0-120* | | *08/31/2017 23:47* | WG1015912 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/02/2017 14:07* | WG1015912 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *08/31/2017 23:47* | WG1015912 |
| *(S) Dibromofluoromethane* | *94.4* | | | *74.0-131* | | *09/02/2017 14:07* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *88.9* | | | *64.0-132* | | *09/02/2017 14:07* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/31/2017 23:47* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.5 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.138 | B | 0.0379 | 0.112 | 1 | 08/29/2017 20:49 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.2* | | | *77.0-120* | | *08/29/2017 20:49* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0167 | J J0 | 0.0112 | 0.0558 | 1 | 09/01/2017 00:05 | WG1015912 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Benzene | U | | 0.000302 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Bromochloromethane | U | | 0.000436 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| Bromoform | U | J0 | 0.000474 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Bromomethane | U | | 0.00150 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| sec-Butylbenzene | U | | 0.000224 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Carbon disulfide | 0.000867 | J | 0.000247 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Carbon tetrachloride | U | | 0.000366 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Chlorodibromomethane | U | | 0.000417 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Chloroethane | U | | 0.00106 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| Chloroform | U | | 0.000256 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| Chloromethane | U | | 0.000419 | 0.00279 | 1 | 09/01/2017 00:05 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000383 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Dibromomethane | U | | 0.000427 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000796 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000296 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000338 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| cis-1,2-Dichloroethene | 0.00115 | | 0.000262 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000295 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000400 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000354 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000293 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000869 | 0.00279 | 1 | 09/01/2017 00:05 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000312 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.00955 | 0.0279 | 25 | 09/02/2017 14:28 | WG1015912 |
| 2-Hexanone | U | J0 | 0.00153 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |
| n-Hexane | U | | 0.000324 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Isopropylbenzene | U | | 0.000271 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 2-Butanone (MEK) | U | J0 | 0.00523 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Methylene Chloride | U | | 0.00112 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Naphthalene | U | | 0.00112 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Styrene | U | | 0.000261 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000408 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000408 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Tetrachloroethene | 0.0106 | | 0.000308 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Toluene | U | | 0.000485 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000433 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Trichloroethene | 0.000372 | J | 0.000312 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000427 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000828 | 0.00279 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000321 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Vinyl chloride | U | | 0.000325 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Xylenes, Total | U | | 0.000780 | 0.00335 | 1 | 09/01/2017 00:05 | WG1015912 |
| *(S) Toluene-d8* | *97.4* | | | *80.0-120* | | *09/01/2017 00:05* | WG1015912 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/02/2017 14:28* | WG1015912 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/01/2017 00:05* | WG1015912 |
| *(S) Dibromofluoromethane* | *88.3* | | | *74.0-131* | | *09/02/2017 14:28* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/01/2017 00:05* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *89.6* | | | *64.0-132* | | *09/02/2017 14:28* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.6 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0144 | J JO | 0.0112 | 0.0558 | 1 | 09/01/2017 00:22 | WG1015912 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Benzene | U | | 0.000302 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Bromochloromethane | U | | 0.000436 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| Bromoform | U | JO | 0.000473 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Bromomethane | U | | 0.00150 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| sec-Butylbenzene | U | | 0.000224 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Carbon disulfide | 0.00232 | | 0.000247 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Carbon tetrachloride | U | | 0.000366 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Chlorodibromomethane | U | | 0.000417 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Chloroethane | U | | 0.00106 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| Chloroform | U | | 0.000256 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| Chloromethane | U | | 0.000419 | 0.00279 | 1 | 09/01/2017 00:22 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000383 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Dibromomethane | U | | 0.000427 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000796 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000296 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000338 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| cis-1,2-Dichloroethene | 0.000316 | J | 0.000262 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000295 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000400 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000354 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000293 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | JO | 0.000869 | 0.00279 | 1 | 09/01/2017 00:22 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000312 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000382 | 0.00112 | 1 | 09/02/2017 14:48 | WG1015912 |
| 2-Hexanone | U | JO | 0.00153 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |
| n-Hexane | U | | 0.000324 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Isopropylbenzene | U | | 0.000271 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 2-Butanone (MEK) | U | JO | 0.00523 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Methylene Chloride | U | | 0.00112 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Naphthalene | U | | 0.00112 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Styrene | U | | 0.000261 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000408 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000408 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Tetrachloroethene | U | | 0.000308 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Toluene | U | | 0.000485 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000433 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Trichloroethene | U | | 0.000312 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000427 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000827 | 0.00279 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Vinyl chloride | U | | 0.000325 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Xylenes, Total | U | | 0.000779 | 0.00335 | 1 | 09/01/2017 00:22 | WG1015912 |
| *(S) Toluene-d8* | *95.8* | | | *80.0-120* | | *09/01/2017 00:22* | WG1015912 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/02/2017 14:48* | WG1015912 |
| *(S) Dibromofluoromethane* | *89.3* | | | *74.0-131* | | *09/02/2017 14:48* | WG1015912 |
| *(S) Dibromofluoromethane* | *99.8* | | | *74.0-131* | | *09/01/2017 00:22* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *88.4* | | | *64.0-132* | | *09/02/2017 14:48* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *95.2* | | | *64.0-132* | | *09/01/2017 00:22* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.8 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0124 | 0.0619 | 1 | 09/01/2017 01:02 | WG1015912 |
| Acrylonitrile | U | | 0.00221 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Benzene | U | | 0.000334 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Bromobenzene | U | | 0.000351 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Bromodichloromethane | U | | 0.000314 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Bromochloromethane | U | | 0.000482 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| Bromoform | U | J0 | 0.000525 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Bromomethane | U | | 0.00166 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| n-Butylbenzene | U | | 0.000319 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| sec-Butylbenzene | U | | 0.000249 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| tert-Butylbenzene | U | | 0.000255 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Carbon disulfide | 0.000305 | J | 0.000273 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Carbon tetrachloride | U | | 0.000406 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Chlorobenzene | U | | 0.000262 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Chlorodibromomethane | U | | 0.000461 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Chloroethane | U | | 0.00117 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| Chloroform | U | | 0.000283 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| Chloromethane | U | | 0.000464 | 0.00309 | 1 | 09/01/2017 01:02 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000372 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000297 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00130 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000424 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Dibromomethane | U | | 0.000473 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000377 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000296 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000280 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000882 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000246 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000328 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000375 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| cis-1,2-Dichloroethene | U | | 0.000291 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000327 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000443 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000392 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000256 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000324 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000330 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000962 | 0.00309 | 1 | 09/01/2017 01:02 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000345 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Di-isopropyl ether | U | | 0.000307 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Ethylbenzene | U | | 0.000367 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000423 | 0.00124 | 1 | 09/02/2017 15:09 | WG1015912 |
| 2-Hexanone | U | J0 | 0.00169 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |
| n-Hexane | U | | 0.000359 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Iodomethane | U | | 0.00313 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Isopropylbenzene | U | | 0.000301 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000252 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 2-Butanone (MEK) | U | J0 | 0.00579 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Methylene Chloride | U | | 0.00124 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00233 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000262 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Naphthalene | U | | 0.00124 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| n-Propylbenzene | U | | 0.000255 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Styrene | U | | 0.000289 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000327 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000452 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000452 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Tetrachloroethene | U | | 0.000341 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Toluene | U | | 0.000537 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000379 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000480 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000354 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000343 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Trichloroethene | U | | 0.000345 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000473 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000917 | 0.00309 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000261 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000355 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000329 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Vinyl acetate | U | | 0.00296 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Vinyl chloride | U | | 0.000360 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Xylenes, Total | U | | 0.000864 | 0.00371 | 1 | 09/01/2017 01:02 | WG1015912 |
| *(S) Toluene-d8* | *95.3* | | | *80.0-120* | | *09/01/2017 01:02* | WG1015912 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/02/2017 15:09* | WG1015912 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/01/2017 01:02* | WG1015912 |
| *(S) Dibromofluoromethane* | *93.3* | | | *74.0-131* | | *09/02/2017 15:09* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *92.4* | | | *64.0-132* | | *09/02/2017 15:09* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *99.4* | | | *64.0-132* | | *09/01/2017 01:02* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.0 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0116 | 0.0581 | 1 | 09/01/2017 01:19 | WG1015912 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Benzene | U | | 0.000314 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Bromochloromethane | U | | 0.000453 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| Bromoform | U | J0 | 0.000493 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Bromomethane | U | | 0.00156 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| n-Butylbenzene | U | | 0.000300 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| sec-Butylbenzene | U | | 0.000234 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Carbon disulfide | U | | 0.000257 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Chloroethane | U | | 0.00110 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| Chloroform | U | | 0.000266 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| Chloromethane | U | | 0.000436 | 0.00291 | 1 | 09/01/2017 01:19 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000350 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000399 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Dibromomethane | U | | 0.000444 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000278 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000263 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000829 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000308 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1-Dichloroethene | 0.000468 | J | 0.000352 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| cis-1,2-Dichloroethene | 0.0174 | | 0.000273 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| trans-1,2-Dichloroethene | 0.000402 | J | 0.000307 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000241 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000904 | 0.00291 | 1 | 09/01/2017 01:19 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 09/02/2017 15:29 | WG1015912 |
| 2-Hexanone | U | J0 | 0.00159 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |
| n-Hexane | 0.000396 | J | 0.000337 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 2-Butanone (MEK) | U | J0 | 0.00544 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Methylene Chloride | U | | 0.00116 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Naphthalene | U | | 0.00116 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000307 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Tetrachloroethene | 0.000424 | J | 0.000321 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Toluene | U | | 0.000504 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000356 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000451 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Trichloroethene | 0.000587 | J | 0.000324 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000444 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000861 | 0.00291 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000334 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Vinyl acetate | U | | 0.00278 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Vinyl chloride | 0.00168 | | 0.000338 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Xylenes, Total | U | | 0.000811 | 0.00349 | 1 | 09/01/2017 01:19 | WG1015912 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/02/2017 15:29* | WG1015912 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/01/2017 01:19* | WG1015912 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/01/2017 01:19* | WG1015912 |
| *(S) Dibromofluoromethane* | *94.1* | | | *74.0-131* | | *09/02/2017 15:29* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *90.3* | | | *64.0-132* | | *09/02/2017 15:29* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *99.7* | | | *64.0-132* | | *09/01/2017 01:19* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.6 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0123 | J JO | 0.0107 | 0.0534 | 1 | 09/01/2017 01:39 | WG1015912 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Benzene | U | | 0.000288 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Bromobenzene | U | | 0.000303 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Bromodichloromethane | U | | 0.000271 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Bromochloromethane | U | | 0.000417 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| Bromoform | U | JO | 0.000453 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Bromomethane | U | | 0.00143 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Carbon disulfide | 0.00190 | | 0.000236 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Carbon tetrachloride | U | | 0.000350 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Chlorobenzene | U | | 0.000226 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Chlorodibromomethane | U | | 0.000398 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Chloroethane | U | | 0.00101 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| Chloroform | U | | 0.000245 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| Chloromethane | U | | 0.000401 | 0.00267 | 1 | 09/01/2017 01:39 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000321 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000256 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000366 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Dibromomethane | U | | 0.000408 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000255 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000762 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000283 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| cis-1,2-Dichloroethene | 0.0508 | | 0.000251 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| trans-1,2-Dichloroethene | 0.000840 | J | 0.000282 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000382 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000280 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000285 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | JO | 0.000831 | 0.00267 | 1 | 09/01/2017 01:39 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000298 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Di-isopropyl ether | U | | 0.000265 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Ethylbenzene | U | | 0.000317 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000365 | 0.00107 | 1 | 09/02/2017 15:50 | WG1015912 |
| 2-Hexanone | U | JO | 0.00146 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |
| n-Hexane | 0.00231 | J | 0.000310 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Iodomethane | U | | 0.00270 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 2-Butanone (MEK) | U | JO | 0.00500 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Methylene Chloride | U | | 0.00107 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Naphthalene | U | | 0.00107 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000282 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000390 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000390 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Tetrachloroethene | 0.00682 | | 0.000295 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Toluene | U | | 0.000464 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000414 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000305 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000296 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Trichloroethene | 0.00119 | | 0.000298 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000408 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000791 | 0.00267 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000307 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000284 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Vinyl acetate | U | | 0.00255 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Vinyl chloride | 0.00915 | | 0.000311 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Xylenes, Total | U | | 0.000746 | 0.00320 | 1 | 09/01/2017 01:39 | WG1015912 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/02/2017 15:50* | WG1015912 |
| *(S) Toluene-d8* | *95.8* | | | *80.0-120* | | *09/01/2017 01:39* | WG1015912 |
| *(S) Dibromofluoromethane* | *92.9* | | | *74.0-131* | | *09/02/2017 15:50* | WG1015912 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/01/2017 01:39* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *89.3* | | | *64.0-132* | | *09/02/2017 15:50* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *98.4* | | | *64.0-132* | | *09/01/2017 01:39* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.0 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0385 | 0.114 | 1 | 09/01/2017 04:16 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* | | *09/01/2017 04:16* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.284 | 1.42 | 25 | 09/01/2017 01:57 | WG1015912 |
| Acrylonitrile | U | | 0.0509 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Benzene | U | | 0.00767 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Bromobenzene | U | | 0.00807 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Bromodichloromethane | U | | 0.00722 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Bromochloromethane | U | | 0.0111 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| Bromoform | U | J0 | 0.0120 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Bromomethane | U | | 0.0381 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| n-Butylbenzene | U | | 0.00733 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| sec-Butylbenzene | U | | 0.00570 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| tert-Butylbenzene | U | | 0.00585 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Carbon disulfide | U | | 0.00627 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Carbon tetrachloride | U | | 0.00932 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Chlorobenzene | U | | 0.00602 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Chlorodibromomethane | U | | 0.0106 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Chloroethane | U | | 0.0268 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| Chloroform | U | | 0.00650 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| Chloromethane | U | | 0.0107 | 0.0710 | 25 | 09/01/2017 01:57 | WG1015912 |
| 2-Chlorotoluene | U | | 0.00854 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 4-Chlorotoluene | U | | 0.00682 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0298 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.00975 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Dibromomethane | U | | 0.0109 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.00866 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.00679 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.00642 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.0202 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.00566 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.00752 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.00861 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| cis-1,2-Dichloroethene | 0.0557 | | 0.00668 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.00750 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.0102 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.00900 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.00589 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.00744 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.00759 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.0220 | 0.0710 | 25 | 09/01/2017 01:57 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.00793 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Di-isopropyl ether | U | | 0.00704 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Ethylbenzene | U | | 0.00843 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.00971 | 0.0284 | 25 | 09/02/2017 16:11 | WG1015912 |
| 2-Hexanone | U | J0 | 0.0389 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |
| n-Hexane | U | | 0.00824 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0718 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Isopropylbenzene | U | | 0.00691 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| p-Isopropyltoluene | U | | 0.00579 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 2-Butanone (MEK) | U | J0 | 0.133 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Methylene Chloride | U | | 0.0284 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0534 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Methyl tert-butyl ether | U | | 0.00602 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Naphthalene | U | | 0.0284 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| n-Propylbenzene | U | | 0.00585 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Styrene | U | | 0.00665 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00750 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0104 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0104 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Tetrachloroethene | 0.109 | | 0.00784 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Toluene | U | | 0.0123 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.00869 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.0110 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.00812 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.00786 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Trichloroethene | 0.0373 | | 0.00793 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Trichlorofluoromethane | U | | 0.0109 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.0210 | 0.0710 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.00600 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.00816 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.00756 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Vinyl acetate | U | | 0.0679 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Vinyl chloride | U | | 0.00827 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Xylenes, Total | U | | 0.0198 | 0.0852 | 25 | 09/01/2017 01:57 | WG1015912 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/01/2017 01:57* | WG1015912 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/02/2017 16:11* | WG1015912 |
| *(S) Dibromofluoromethane* | *89.0* | | | *74.0-131* | | *09/01/2017 01:57* | WG1015912 |
| *(S) Dibromofluoromethane* | *96.6* | | | *74.0-131* | | *09/02/2017 16:11* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *99.1* | | | *64.0-132* | | *09/01/2017 01:57* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *92.5* | | | *64.0-132* | | *09/02/2017 16:11* | WG1015912 |

Sample Narrative:

L932260-09 WG1015912: Cannot analyze at a lower dilution. No more low level sodium bisulfite vials remaining.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.6 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0130 | 0.0652 | 1 | 09/01/2017 02:15 | WG1015912 |
| Acrylonitrile | U | | 0.00234 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Benzene | U | | 0.000352 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Bromobenzene | U | | 0.000371 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Bromodichloromethane | U | | 0.000331 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Bromochloromethane | U | | 0.000509 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| Bromoform | U | J0 | 0.000553 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Bromomethane | U | | 0.00175 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| n-Butylbenzene | U | | 0.000337 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| sec-Butylbenzene | U | | 0.000262 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| tert-Butylbenzene | U | | 0.000269 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Carbon disulfide | 0.000410 | J | 0.000288 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Carbon tetrachloride | U | | 0.000428 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Chlorobenzene | U | | 0.000277 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Chlorodibromomethane | U | | 0.000487 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Chloroethane | U | | 0.00123 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| Chloroform | U | | 0.000299 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| Chloromethane | U | | 0.000489 | 0.00326 | 1 | 09/01/2017 02:15 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000393 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000313 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00137 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000447 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Dibromomethane | U | | 0.000498 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000398 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000312 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000295 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000930 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000260 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000346 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000395 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| cis-1,2-Dichloroethene | U | | 0.000307 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000344 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000467 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000414 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000270 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000342 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000348 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.00102 | 0.00326 | 1 | 09/01/2017 02:15 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000364 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Di-isopropyl ether | U | | 0.000324 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Ethylbenzene | U | | 0.000387 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000446 | 0.00130 | 1 | 09/02/2017 16:32 | WG1015912 |
| 2-Hexanone | U | J0 | 0.00179 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |
| n-Hexane | 0.00124 | J | 0.000378 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Iodomethane | U | | 0.00330 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Isopropylbenzene | U | | 0.000317 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000266 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 2-Butanone (MEK) | U | J0 | 0.00611 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Methylene Chloride | U | | 0.00130 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00245 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000277 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Naphthalene | U | | 0.00130 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| n-Propylbenzene | U | | 0.000269 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Styrene | U | | 0.000305 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000344 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000476 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000476 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Tetrachloroethene | U | | 0.000360 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Toluene | U | | 0.000566 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000399 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000506 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000373 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000361 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Trichloroethene | U | | 0.000364 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000498 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000967 | 0.00326 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000275 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000374 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000347 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Vinyl acetate | U | | 0.00312 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Vinyl chloride | U | | 0.000380 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Xylenes, Total | U | | 0.000911 | 0.00391 | 1 | 09/01/2017 02:15 | WG1015912 |
| *(S) Toluene-d8* | *98.1* | | | *80.0-120* | | *09/01/2017 02:15* | WG1015912 |
| *(S) Toluene-d8* | *99.8* | | | *80.0-120* | | *09/02/2017 16:32* | WG1015912 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/01/2017 02:15* | WG1015912 |
| *(S) Dibromofluoromethane* | *93.8* | | | *74.0-131* | | *09/02/2017 16:32* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *91.2* | | | *64.0-132* | | *09/02/2017 16:32* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *99.5* | | | *64.0-132* | | *09/01/2017 02:15* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.1 | | 1 | 08/31/2017 11:22 | WG1015509 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0115 | 0.0574 | 1 | 09/01/2017 02:32 | WG1015912 |
| Acrylonitrile | U | | 0.00205 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Benzene | U | | 0.000310 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Bromobenzene | U | | 0.000326 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Bromochloromethane | U | | 0.000448 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| Bromoform | U | J0 | 0.000487 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Bromomethane | U | | 0.00154 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| n-Butylbenzene | U | | 0.000296 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| tert-Butylbenzene | U | | 0.000236 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Carbon disulfide | 0.00176 | | 0.000254 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Carbon tetrachloride | U | | 0.000376 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Chlorobenzene | U | | 0.000243 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Chlorodibromomethane | U | | 0.000428 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Chloroethane | U | | 0.00109 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| Chloroform | U | | 0.000263 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| Chloromethane | U | | 0.000430 | 0.00287 | 1 | 09/01/2017 02:32 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000346 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000275 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000394 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Dibromomethane | U | | 0.000438 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000350 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000274 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000259 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000818 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000228 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000304 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000348 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| cis-1,2-Dichloroethene | U | | 0.000270 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000303 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000411 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000364 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000306 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000893 | 0.00287 | 1 | 09/01/2017 02:32 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000320 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Di-isopropyl ether | U | | 0.000285 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Ethylbenzene | U | | 0.000341 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000393 | 0.00115 | 1 | 09/02/2017 16:52 | WG1015912 |
| 2-Hexanone | U | J0 | 0.00157 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |
| n-Hexane | U | | 0.000333 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Iodomethane | U | | 0.00290 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Isopropylbenzene | U | | 0.000279 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000234 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 2-Butanone (MEK) | U | J0 | 0.00537 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Methylene Chloride | U | | 0.00115 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000243 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Naphthalene | U | | 0.00115 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| n-Propylbenzene | U | | 0.000236 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000303 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000419 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000419 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Tetrachloroethene | U | | 0.000317 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Toluene | U | | 0.000498 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000445 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000328 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000318 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Trichloroethene | U | | 0.000320 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000438 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000851 | 0.00287 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000242 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000329 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000305 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Vinyl acetate | U | | 0.00274 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Vinyl chloride | U | | 0.000334 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Xylenes, Total | U | | 0.000801 | 0.00344 | 1 | 09/01/2017 02:32 | WG1015912 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/02/2017 16:52* | WG1015912 |
| *(S) Toluene-d8* | *95.0* | | | *80.0-120* | | *09/01/2017 02:32* | WG1015912 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/01/2017 02:32* | WG1015912 |
| *(S) Dibromofluoromethane* | *94.4* | | | *74.0-131* | | *09/02/2017 16:52* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/01/2017 02:32* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *86.8* | | | *64.0-132* | | *09/02/2017 16:52* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.3 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 2.24 | | 0.0384 | 0.113 | 1 | 08/29/2017 21:32 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.8* | | | *77.0-120* | | *08/29/2017 21:32* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0113 | 0.0566 | 1 | 09/01/2017 02:49 | WG1015912 |
| Acrylonitrile | U | | 0.00203 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Benzene | U | | 0.000306 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Bromobenzene | U | | 0.000322 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Bromodichloromethane | U | | 0.000288 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Bromochloromethane | U | | 0.000442 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| Bromoform | U | J0 | 0.000480 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Bromomethane | U | | 0.00152 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| n-Butylbenzene | U | | 0.000292 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| sec-Butylbenzene | U | | 0.000228 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| tert-Butylbenzene | U | | 0.000233 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Carbon disulfide | 0.000483 | J | 0.000250 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Carbon tetrachloride | U | | 0.000371 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Chlorobenzene | U | | 0.000240 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Chlorodibromomethane | U | | 0.000422 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Chloroethane | U | | 0.00107 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| Chloroform | U | | 0.000259 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| Chloromethane | U | | 0.000425 | 0.00283 | 1 | 09/01/2017 02:49 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000341 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000272 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000388 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Dibromomethane | U | | 0.000433 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000271 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000807 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000300 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1-Dichloroethene | 0.00404 | | 0.000343 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| cis-1,2-Dichloroethene | 6.93 | | 0.0134 | 0.0566 | 50 | 09/02/2017 17:13 | WG1015912 |
| trans-1,2-Dichloroethene | 0.0224 | | 0.000299 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000405 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000359 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000297 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000302 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000881 | 0.00283 | 1 | 09/01/2017 02:49 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000316 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Di-isopropyl ether | U | | 0.000281 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Ethylbenzene | U | | 0.000336 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.0194 | 0.0566 | 50 | 09/02/2017 17:13 | WG1015912 |
| 2-Hexanone | U | J0 | 0.00155 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |
| n-Hexane | U | | 0.000328 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00287 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Isopropylbenzene | U | | 0.000275 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000231 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 2-Butanone (MEK) | U | J0 | 0.00530 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Methylene Chloride | U | | 0.00113 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00213 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Methyl tert-butyl ether | U | | 0.000240 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Naphthalene | U | | 0.00113 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| n-Propylbenzene | U | | 0.000233 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Styrene | U | | 0.000265 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000299 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000413 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000413 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Tetrachloroethene | 0.00152 | | 0.000313 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Toluene | U | | 0.000491 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000347 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000439 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000324 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000314 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Trichloroethene | U | | 0.000316 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000433 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000839 | 0.00283 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000239 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000325 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000301 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Vinyl acetate | U | | 0.00271 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Vinyl chloride | 0.428 | | 0.0165 | 0.0566 | 50 | 09/02/2017 17:13 | WG1015912 |
| Xylenes, Total | U | | 0.000790 | 0.00340 | 1 | 09/01/2017 02:49 | WG1015912 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/02/2017 17:13* | WG1015912 |
| *(S) Toluene-d8* | *94.4* | | | *80.0-120* | | *09/01/2017 02:49* | WG1015912 |
| *(S) Dibromofluoromethane* | *88.7* | | | *74.0-131* | | *09/02/2017 17:13* | WG1015912 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/01/2017 02:49* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *98.7* | | | *64.0-132* | | *09/01/2017 02:49* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *88.4* | | | *64.0-132* | | *09/02/2017 17:13* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.7 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.727 | | 0.0378 | 0.112 | 1 | 08/29/2017 21:54 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.8* | | | *77.0-120* | | *08/29/2017 21:54* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0169 | J JO | 0.0112 | 0.0558 | 1 | 09/01/2017 05:25 | WG1015912 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Benzene | 0.000397 | J | 0.000301 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Bromodichloromethane | U | | 0.000283 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Bromochloromethane | U | | 0.000435 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| Bromoform | U | JO | 0.000473 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Bromomethane | U | | 0.00149 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| sec-Butylbenzene | U | | 0.000224 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Carbon disulfide | 0.00478 | | 0.000247 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Carbon tetrachloride | U | | 0.000366 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Chlorobenzene | U | | 0.000236 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Chlorodibromomethane | U | | 0.000416 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Chloroethane | U | | 0.00106 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| Chloroform | U | | 0.000255 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| Chloromethane | U | | 0.000418 | 0.00279 | 1 | 09/01/2017 05:25 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000383 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Dibromomethane | U | | 0.000426 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000340 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000795 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000296 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1-Dichloroethene | 0.000497 | J | 0.000338 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| cis-1,2-Dichloroethene | 2.47 | | 0.00656 | 0.0279 | 25 | 09/02/2017 17:33 | WG1015912 |
| trans-1,2-Dichloroethene | 0.00359 | | 0.000294 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000399 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000354 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000292 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | JO | 0.000868 | 0.00279 | 1 | 09/01/2017 05:25 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000311 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Ethylbenzene | U | | 0.000331 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.00954 | 0.0279 | 25 | 09/02/2017 17:33 | WG1015912 |
| 2-Hexanone | U | JO | 0.00153 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |
| n-Hexane | 0.0285 | | 0.000323 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00282 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Isopropylbenzene | U | | 0.000271 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 2-Butanone (MEK) | U | J0 | 0.00522 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Methylene Chloride | U | | 0.00112 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Methyl tert-butyl ether | U | | 0.000236 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Naphthalene | U | | 0.00112 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Styrene | U | | 0.000261 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000294 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000407 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000407 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Tetrachloroethene | 0.0325 | | 0.000308 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Toluene | U | | 0.000484 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000433 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Trichloroethene | 0.00590 | | 0.000311 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000426 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000827 | 0.00279 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000235 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Vinyl chloride | 0.0261 | | 0.000325 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Xylenes, Total | U | | 0.000779 | 0.00335 | 1 | 09/01/2017 05:25 | WG1015912 |
| *(S) Toluene-d8* | *92.2* | | | *80.0-120* | | *09/01/2017 05:25* | WG1015912 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *09/02/2017 17:33* | WG1015912 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/01/2017 05:25* | WG1015912 |
| *(S) Dibromofluoromethane* | *89.7* | | | *74.0-131* | | *09/02/2017 17:33* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *99.0* | | | *64.0-132* | | *09/01/2017 05:25* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *88.7* | | | *64.0-132* | | *09/02/2017 17:33* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.8 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0107 | 0.0533 | 1 | 09/01/2017 05:43 | WG1015912 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Benzene | U | | 0.000288 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Bromobenzene | U | | 0.000303 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Bromodichloromethane | U | | 0.000271 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Bromochloromethane | U | | 0.000416 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| Bromoform | U | J0 | 0.000452 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Bromomethane | U | | 0.00143 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| n-Butylbenzene | U | | 0.000275 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| sec-Butylbenzene | U | | 0.000214 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Carbon disulfide | 0.00130 | | 0.000235 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Carbon tetrachloride | U | | 0.000350 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Chlorobenzene | U | | 0.000226 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Chlorodibromomethane | U | | 0.000397 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Chloroethane | U | | 0.00101 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| Chloroform | U | | 0.000244 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| Chloromethane | U | | 0.000400 | 0.00266 | 1 | 09/01/2017 05:43 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000321 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000256 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000366 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Dibromomethane | U | | 0.000407 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000255 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000760 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000282 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000323 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| cis-1,2-Dichloroethene | U | | 0.000323 | 0.00137 | 1.29 | 09/02/2017 17:54 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000281 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000381 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000338 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000285 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000829 | 0.00266 | 1 | 09/01/2017 05:43 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Di-isopropyl ether | U | | 0.000264 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Ethylbenzene | U | | 0.000316 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000470 | 0.00137 | 1.29 | 09/02/2017 17:54 | WG1015912 |
| 2-Hexanone | U | J0 | 0.00146 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |
| n-Hexane | 0.00194 | J | 0.000309 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Iodomethane | U | | 0.00270 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Isopropylbenzene | U | | 0.000259 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 2-Butanone (MEK) | U | J0 | 0.00499 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Methylene Chloride | U | | 0.00107 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Naphthalene | U | | 0.00107 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Styrene | U | | 0.000249 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000389 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000389 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Tetrachloroethene | 0.000322 | J | 0.000294 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Toluene | U | | 0.000462 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000413 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000305 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Trichloroethene | U | | 0.000297 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000407 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000790 | 0.00266 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000306 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000283 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Vinyl acetate | U | | 0.00255 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Vinyl chloride | U | | 0.000310 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Xylenes, Total | U | | 0.000744 | 0.00320 | 1 | 09/01/2017 05:43 | WG1015912 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/02/2017 17:54* | WG1015912 |
| *(S) Toluene-d8* | *98.2* | | | *80.0-120* | | *09/01/2017 05:43* | WG1015912 |
| *(S) Dibromofluoromethane* | *94.0* | | | *74.0-131* | | *09/02/2017 17:54* | WG1015912 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/01/2017 05:43* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *89.6* | | | *64.0-132* | | *09/02/2017 17:54* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *96.8* | | | *64.0-132* | | *09/01/2017 05:43* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.3 | | 1 | 08/31/2017 11:22 | WG1015509 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0115 | J JO | 0.0106 | 0.0530 | 1 | 09/01/2017 06:00 | WG1015912 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Benzene | U | | 0.000286 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Bromobenzene | U | | 0.000301 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Bromodichloromethane | U | | 0.000269 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Bromochloromethane | U | | 0.000414 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| Bromoform | U | JO | 0.000450 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Bromomethane | U | | 0.00142 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| n-Butylbenzene | U | | 0.000274 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| sec-Butylbenzene | U | | 0.000213 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| tert-Butylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Carbon disulfide | 0.000870 | J | 0.000234 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Carbon tetrachloride | U | | 0.000348 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Chlorobenzene | U | | 0.000225 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Chlorodibromomethane | U | | 0.000396 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Chloroethane | U | | 0.00100 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| Chloroform | U | | 0.000243 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| Chloromethane | U | | 0.000398 | 0.00265 | 1 | 09/01/2017 06:00 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000319 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000364 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Dibromomethane | U | | 0.000405 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000323 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000253 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000240 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000756 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000211 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000281 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000321 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| cis-1,2-Dichloroethene | U | | 0.000249 | 0.00106 | 1 | 09/02/2017 18:14 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000280 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000380 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000336 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000278 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000283 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U | JO | 0.000825 | 0.00265 | 1 | 09/01/2017 06:00 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000296 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Di-isopropyl ether | U | | 0.000263 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Ethylbenzene | U | | 0.000315 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000363 | 0.00106 | 1 | 09/02/2017 18:14 | WG1015912 |
| 2-Hexanone | U | JO | 0.00145 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |
| n-Hexane | U | | 0.000308 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Iodomethane | U | | 0.00268 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Isopropylbenzene | U | | 0.000258 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000216 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 2-Butanone (MEK) | U | JO | 0.00496 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Methylene Chloride | U | | 0.00106 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00199 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000225 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Naphthalene | U | | 0.00106 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| n-Propylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Styrene | U | | 0.000248 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000280 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000387 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000387 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Tetrachloroethene | U | | 0.000293 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Toluene | U | | 0.000460 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000411 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000303 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000294 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Trichloroethene | U | | 0.000296 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000405 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000786 | 0.00265 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000224 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000304 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000282 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Vinyl acetate | U | | 0.00253 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Vinyl chloride | U | | 0.000309 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Xylenes, Total | U | | 0.000740 | 0.00318 | 1 | 09/01/2017 06:00 | WG1015912 |
| *(S) Toluene-d8* | *95.9* | | | *80.0-120* | | *09/01/2017 06:00* | WG1015912 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/02/2017 18:14* | WG1015912 |
| *(S) Dibromofluoromethane* | *94.9* | | | *74.0-131* | | *09/02/2017 18:14* | WG1015912 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/01/2017 06:00* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *98.0* | | | *64.0-132* | | *09/01/2017 06:00* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *85.5* | | | *64.0-132* | | *09/02/2017 18:14* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.0 | | 1 | 08/31/2017 11:22 | WG1015509 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0115 | 0.0575 | 1 | 09/04/2017 15:58 | WG1014887 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Benzene | U | | 0.000310 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Bromobenzene | U | | 0.000326 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Bromochloromethane | U | | 0.000448 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| Bromoform | U | | 0.000487 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Bromomethane | U | | 0.00154 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| n-Butylbenzene | U | | 0.000297 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| tert-Butylbenzene | U | | 0.000237 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Carbon disulfide | 0.000499 | J | 0.000254 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Carbon tetrachloride | U | | 0.000377 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Chlorobenzene | U | | 0.000244 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Chlorodibromomethane | U | | 0.000429 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Chloroethane | U | | 0.00109 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| Chloroform | U | | 0.000263 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| Chloromethane | U | | 0.000431 | 0.00287 | 1 | 08/31/2017 02:05 | WG1014887 |
| 2-Chlorotoluene | U | | 0.000346 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 4-Chlorotoluene | U | | 0.000276 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00121 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2-Dibromoethane | U | | 0.000394 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Dibromomethane | U | | 0.000439 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2-Dichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,3-Dichlorobenzene | U | | 0.000275 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,4-Dichlorobenzene | U | | 0.000260 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Dichlorodifluoromethane | U | | 0.000819 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1-Dichloroethane | U | | 0.000229 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2-Dichloroethane | U | | 0.000305 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1-Dichloroethene | U | | 0.000348 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| cis-1,2-Dichloroethene | 0.00106 | J | 0.000270 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| trans-1,2-Dichloroethene | U | | 0.000303 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2-Dichloropropane | U | | 0.000411 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1-Dichloropropene | U | | 0.000364 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| trans-1,3-Dichloropropene | U | | 0.000307 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| trans-1,4-Dichloro-2-butene | U | | 0.000894 | 0.00287 | 1 | 08/31/2017 02:05 | WG1014887 |
| 2,2-Dichloropropane | U | | 0.000321 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Di-isopropyl ether | U | | 0.000285 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Ethylbenzene | U | | 0.000341 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Hexachloro-1,3-butadiene | U | J3 | 0.000393 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 2-Hexanone | U | | 0.00157 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |
| n-Hexane | 0.000674 | J | 0.000333 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Iodomethane | U | | 0.00291 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Isopropylbenzene | U | | 0.000279 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| p-Isopropyltoluene | U | | 0.000234 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 2-Butanone (MEK) | U | J3 | 0.00538 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Methylene Chloride | U | | 0.00115 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Naphthalene | U | J3 | 0.00115 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000303 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000419 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000419 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Tetrachloroethene | U | | 0.000317 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Toluene | U | | 0.000499 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2,3-Trichlorobenzene | U | J3 | 0.000352 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.000446 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1,1-Trichloroethane | U | | 0.000329 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1,2-Trichloroethane | U | | 0.000318 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Trichloroethene | U | | 0.000321 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Trichlorofluoromethane | U | | 0.000439 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2,3-Trichloropropane | U | | 0.000852 | 0.00287 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2,4-Trimethylbenzene | U | | 0.000243 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2,3-Trimethylbenzene | U | | 0.000330 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,3,5-Trimethylbenzene | U | | 0.000306 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Vinyl acetate | U | | 0.00275 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Vinyl chloride | U | | 0.000334 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Xylenes, Total | U | | 0.000802 | 0.00345 | 1 | 08/31/2017 02:05 | WG1014887 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *08/31/2017 02:05* | WG1014887 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/04/2017 15:58* | WG1014887 |
| *(S) Dibromofluoromethane* | *98.9* | | | *74.0-131* | | *09/04/2017 15:58* | WG1014887 |
| *(S) Dibromofluoromethane* | *96.5* | | | *74.0-131* | | *08/31/2017 02:05* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *91.0* | | | *64.0-132* | | *08/31/2017 02:05* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/04/2017 15:58* | WG1014887 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.6 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 2.49 | | 0.0396 | 0.117 | 1 | 08/29/2017 22:24 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *08/29/2017 22:24* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.765 | 3.82 | 65.5 | 09/04/2017 16:18 | WG1014887 |
| Acrylonitrile | U | | 0.00209 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Benzene | U | | 0.000315 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Bromobenzene | U | | 0.000332 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Bromodichloromethane | U | | 0.000297 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Bromochloromethane | U | | 0.000455 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| Bromoform | U | | 0.000495 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Bromomethane | U | | 0.00156 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| n-Butylbenzene | U | | 0.000301 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| sec-Butylbenzene | U | | 0.000235 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| tert-Butylbenzene | U | | 0.000241 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Carbon disulfide | 0.000689 | J | 0.000258 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Carbon tetrachloride | U | | 0.000383 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Chlorobenzene | U | | 0.000248 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Chlorodibromomethane | U | | 0.000436 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Chloroethane | U | | 0.00110 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| Chloroform | U | | 0.000267 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| Chloromethane | U | | 0.000438 | 0.00292 | 1 | 08/31/2017 02:25 | WG1014887 |
| 2-Chlorotoluene | U | | 0.000351 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 4-Chlorotoluene | U | | 0.000280 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00123 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2-Dibromoethane | U | | 0.000400 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Dibromomethane | U | | 0.000446 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2-Dichlorobenzene | U | | 0.000356 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,3-Dichlorobenzene | U | | 0.000279 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,4-Dichlorobenzene | U | | 0.000264 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Dichlorodifluoromethane | U | | 0.000832 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1-Dichloroethane | U | | 0.000232 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2-Dichloroethane | U | | 0.000309 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1-Dichloroethene | 0.0148 | | 0.000354 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| cis-1,2-Dichloroethene | 0.581 | | 0.0180 | 0.0765 | 65.5 | 09/04/2017 16:18 | WG1014887 |
| trans-1,2-Dichloroethene | 0.0212 | | 0.000308 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2-Dichloropropane | U | | 0.000418 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1-Dichloropropene | U | | 0.000370 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,3-Dichloropropane | U | | 0.000242 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| cis-1,3-Dichloropropene | U | | 0.000306 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| trans-1,3-Dichloropropene | U | | 0.000312 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| trans-1,4-Dichloro-2-butene | U | | 0.000908 | 0.00292 | 1 | 08/31/2017 02:25 | WG1014887 |
| 2,2-Dichloropropane | U | | 0.000326 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Di-isopropyl ether | U | | 0.000290 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Ethylbenzene | U | | 0.000347 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Hexachloro-1,3-butadiene | U | J3 | 0.000399 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 2-Hexanone | U | | 0.00160 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |
| n-Hexane | 0.000445 | J | 0.000339 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00295 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Isopropylbenzene | U | | 0.000284 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| p-Isopropyltoluene | U | | 0.000238 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 2-Butanone (MEK) | U | J3 | 0.00546 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Methylene Chloride | U | | 0.00117 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00220 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Methyl tert-butyl ether | U | | 0.000248 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Naphthalene | U | J3 | 0.00117 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| n-Propylbenzene | U | | 0.000241 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Styrene | U | | 0.000273 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000308 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000426 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000426 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Tetrachloroethene | 0.0859 | | 0.000322 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Toluene | U | | 0.000507 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2,3-Trichlorobenzene | U | J3 | 0.000357 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.000453 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1,1-Trichloroethane | U | | 0.000334 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1,2-Trichloroethane | U | | 0.000323 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Trichloroethene | 0.871 | | 0.0214 | 0.0765 | 65.5 | 09/04/2017 16:18 | WG1014887 |
| Trichlorofluoromethane | U | | 0.000446 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2,3-Trichloropropane | U | | 0.000865 | 0.00292 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2,4-Trimethylbenzene | U | | 0.000246 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2,3-Trimethylbenzene | U | | 0.000335 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,3,5-Trimethylbenzene | U | | 0.000311 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Vinyl acetate | U | | 0.00279 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Vinyl chloride | 0.00887 | | 0.000340 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Xylenes, Total | U | | 0.000815 | 0.00350 | 1 | 08/31/2017 02:25 | WG1014887 |
| *(S) Toluene-d8* | *99.6* | | | *80.0-120* | | *08/31/2017 02:25* | WG1014887 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/04/2017 16:18* | WG1014887 |
| *(S) Dibromofluoromethane* | *91.6* | | | *74.0-131* | | *09/04/2017 16:18* | WG1014887 |
| *(S) Dibromofluoromethane* | *98.1* | | | *74.0-131* | | *08/31/2017 02:25* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *93.6* | | | *64.0-132* | | *09/04/2017 16:18* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *95.7* | | | *64.0-132* | | *08/31/2017 02:25* | WG1014887 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.0 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0361 | 0.106 | 1 | 08/29/2017 22:46 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *08/29/2017 22:46* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.266 | 1.33 | 25 | 09/04/2017 16:37 | WG1014887 |
| Acrylonitrile | U | | 0.00191 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Benzene | U | | 0.000287 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Bromobenzene | U | | 0.000302 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Bromodichloromethane | U | | 0.000270 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Bromochloromethane | U | | 0.000415 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| Bromoform | U | | 0.000451 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Bromomethane | U | | 0.00143 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| n-Butylbenzene | U | | 0.000275 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| sec-Butylbenzene | U | | 0.000214 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| tert-Butylbenzene | U | | 0.000219 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Carbon disulfide | 0.00159 | | 0.000235 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Carbon tetrachloride | U | | 0.000349 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Chlorobenzene | U | | 0.000226 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Chlorodibromomethane | U | | 0.000397 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Chloroethane | U | | 0.00101 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| Chloroform | U | | 0.000244 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| Chloromethane | U | | 0.000399 | 0.00266 | 1 | 08/31/2017 02:46 | WG1014887 |
| 2-Chlorotoluene | U | | 0.000320 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00112 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2-Dibromoethane | U | | 0.000365 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Dibromomethane | U | | 0.000407 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,3-Dichlorobenzene | U | | 0.000254 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Dichlorodifluoromethane | U | | 0.000759 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2-Dichloroethane | U | | 0.000282 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1-Dichloroethene | U | | 0.000323 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| cis-1,2-Dichloroethene | U | | 0.00626 | 0.0266 | 25 | 09/04/2017 16:37 | WG1014887 |
| trans-1,2-Dichloroethene | U | | 0.000281 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2-Dichloropropane | U | | 0.000381 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1-Dichloropropene | U | | 0.000337 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| trans-1,3-Dichloropropene | U | | 0.000284 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| trans-1,4-Dichloro-2-butene | U | | 0.000828 | 0.00266 | 1 | 08/31/2017 02:46 | WG1014887 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Di-isopropyl ether | U | | 0.000264 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Ethylbenzene | U | | 0.000316 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Hexachloro-1,3-butadiene | U | J3 | 0.000364 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 2-Hexanone | U | | 0.00146 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |
| n-Hexane | U | | 0.000309 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00269 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Isopropylbenzene | U | | 0.000259 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 2-Butanone (MEK) | U | J3 | 0.00498 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Methylene Chloride | U | | 0.00106 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Methyl tert-butyl ether | U | | 0.000226 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Naphthalene | U | J3 | 0.00106 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| n-Propylbenzene | U | | 0.000219 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Styrene | U | | 0.000249 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000388 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000388 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Tetrachloroethene | U | | 0.000294 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Toluene | U | | 0.000462 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2,3-Trichlorobenzene | U | J3 | 0.000326 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.000413 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1,1-Trichloroethane | U | | 0.000304 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Trichloroethene | U | | 0.00743 | 0.0266 | 25 | 09/04/2017 16:37 | WG1014887 |
| Trichlorofluoromethane | U | | 0.000407 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2,3-Trichloropropane | U | | 0.000789 | 0.00266 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2,3-Trimethylbenzene | U | | 0.000305 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,3,5-Trimethylbenzene | U | | 0.000283 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Vinyl acetate | U | | 0.00254 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Vinyl chloride | U | | 0.000310 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Xylenes, Total | U | | 0.000743 | 0.00319 | 1 | 08/31/2017 02:46 | WG1014887 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/04/2017 16:37* | WG1014887 |
| *(S) Toluene-d8* | *97.5* | | | *80.0-120* | | *08/31/2017 02:46* | WG1014887 |
| *(S) Dibromofluoromethane* | *97.6* | | | *74.0-131* | | *08/31/2017 02:46* | WG1014887 |
| *(S) Dibromofluoromethane* | *90.7* | | | *74.0-131* | | *09/04/2017 16:37* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *93.0* | | | *64.0-132* | | *08/31/2017 02:46* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *95.2* | | | *64.0-132* | | *09/04/2017 16:37* | WG1014887 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.6 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.968 | 2.85 | 25 | 09/02/2017 02:06 | WG1014942 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.0* | | | *77.0-120* | | *09/02/2017 02:06* | WG1014942 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.285 | 1.43 | 25 | 09/04/2017 16:57 | WG1014887 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Bromobenzene | U | | 0.000324 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Bromodichloromethane | U | | 0.000290 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Bromochloromethane | U | | 0.000445 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| Bromoform | U | | 0.000484 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Bromomethane | U | | 0.00153 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| n-Butylbenzene | U | | 0.000295 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| sec-Butylbenzene | U | | 0.000230 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Carbon disulfide | 0.000471 | J | 0.000252 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Carbon tetrachloride | U | | 0.000375 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Chlorodibromomethane | U | | 0.000426 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Chloroethane | U | | 0.00108 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| Chloroform | U | | 0.000262 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| Chloromethane | U | | 0.000428 | 0.00285 | 1 | 08/31/2017 03:07 | WG1014887 |
| 2-Chlorotoluene | U | | 0.000344 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 4-Chlorotoluene | U | | 0.000274 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00120 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2-Dibromoethane | U | | 0.000392 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Dibromomethane | U | | 0.000436 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2-Dichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,3-Dichlorobenzene | U | | 0.000273 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,4-Dichlorobenzene | U | | 0.000258 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Dichlorodifluoromethane | U | | 0.000814 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2-Dichloroethane | U | | 0.000303 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1-Dichloroethene | U | | 0.000346 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| cis-1,2-Dichloroethene | U | | 0.00671 | 0.0285 | 25 | 09/04/2017 16:57 | WG1014887 |
| trans-1,2-Dichloroethene | U | | 0.000301 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2-Dichloropropane | U | | 0.000409 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1-Dichloropropene | U | | 0.000362 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| cis-1,3-Dichloropropene | U | | 0.000299 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| trans-1,3-Dichloropropene | U | | 0.000305 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| trans-1,4-Dichloro-2-butene | U | | 0.000888 | 0.00285 | 1 | 08/31/2017 03:07 | WG1014887 |
| 2,2-Dichloropropane | U | | 0.000319 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Di-isopropyl ether | U | | 0.000283 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Ethylbenzene | U | | 0.000339 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Hexachloro-1,3-butadiene | U | J3 | 0.000391 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |
| n-Hexane | U | | 0.000331 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00289 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Isopropylbenzene | U | | 0.000278 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| p-Isopropyltoluene | U | | 0.000233 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 2-Butanone (MEK) | U | J3 | 0.00534 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Methylene Chloride | U | | 0.00114 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00215 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Naphthalene | U | J3 | 0.00114 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000417 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000417 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Tetrachloroethene | U | | 0.000315 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Toluene | U | | 0.000496 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2,3-Trichlorobenzene | U | J3 | 0.000349 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.000443 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1,1-Trichloroethane | U | | 0.000327 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1,2-Trichloroethane | U | | 0.000316 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Trichloroethene | U | | 0.00797 | 0.0285 | 25 | 09/04/2017 16:57 | WG1014887 |
| Trichlorofluoromethane | U | | 0.000436 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2,3-Trichloropropane | U | | 0.000846 | 0.00285 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2,4-Trimethylbenzene | U | | 0.000241 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2,3-Trimethylbenzene | U | | 0.000328 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,3,5-Trimethylbenzene | U | | 0.000304 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Vinyl acetate | U | | 0.00273 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Vinyl chloride | U | | 0.000332 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Xylenes, Total | U | | 0.000797 | 0.00343 | 1 | 08/31/2017 03:07 | WG1014887 |
| *(S) Toluene-d8* | *99.1* | | | *80.0-120* | | *08/31/2017 03:07* | WG1014887 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/04/2017 16:57* | WG1014887 |
| *(S) Dibromofluoromethane* | *88.6* | | | *74.0-131* | | *09/04/2017 16:57* | WG1014887 |
| *(S) Dibromofluoromethane* | *99.8* | | | *74.0-131* | | *08/31/2017 03:07* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *97.9* | | | *64.0-132* | | *09/04/2017 16:57* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *89.4* | | | *64.0-132* | | *08/31/2017 03:07* | WG1014887 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.8 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 11.7 | | 0.934 | 2.75 | 25 | 09/02/2017 02:28 | WG1014942 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.0* | | | *77.0-120* | | *09/02/2017 02:28* | WG1014942 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 1.10 | 5.51 | 100 | 09/04/2017 17:17 | WG1014887 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Benzene | U | | 0.000297 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Bromobenzene | U | | 0.000313 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Bromochloromethane | U | | 0.000430 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| Bromoform | U | | 0.000467 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Bromomethane | U | | 0.00148 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| n-Butylbenzene | U | | 0.000284 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Carbon disulfide | 0.00102 | J | 0.000243 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Carbon tetrachloride | U | | 0.000361 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Chlorodibromomethane | U | | 0.000411 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Chloroethane | U | | 0.00104 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| Chloroform | U | | 0.000252 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| Chloromethane | U | | 0.000413 | 0.00275 | 1 | 08/31/2017 03:27 | WG1014887 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 4-Chlorotoluene | U | | 0.000264 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00116 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2-Dibromoethane | U | | 0.000378 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Dibromomethane | U | | 0.000421 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2-Dichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,3-Dichlorobenzene | U | | 0.000263 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,4-Dichlorobenzene | U | | 0.000249 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Dichlorodifluoromethane | U | | 0.000785 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2-Dichloroethane | U | | 0.000292 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1-Dichloroethene | 0.00773 | | 0.000334 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| cis-1,2-Dichloroethene | 0.990 | | 0.0259 | 0.110 | 100 | 09/04/2017 17:17 | WG1014887 |
| trans-1,2-Dichloroethene | 0.000601 | J | 0.000291 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2-Dichloropropane | U | | 0.000394 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1-Dichloropropene | U | | 0.000349 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| trans-1,3-Dichloropropene | U | | 0.000294 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| trans-1,4-Dichloro-2-butene | U | | 0.000857 | 0.00275 | 1 | 08/31/2017 03:27 | WG1014887 |
| 2,2-Dichloropropane | U | | 0.000307 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Di-isopropyl ether | U | | 0.000273 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Ethylbenzene | U | | 0.000327 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Hexachloro-1,3-butadiene | U | J3 | 0.000377 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |
| n-Hexane | 0.000787 | J | 0.000319 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 2-Butanone (MEK) | U | J3 | 0.00516 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Methylene Chloride | U | | 0.00110 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00207 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Methyl tert-butyl ether | U | | 0.000234 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Naphthalene | U | J3 | 0.00110 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000291 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000402 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000402 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Tetrachloroethene | 173 | | 0.304 | 1.10 | 1000 | 09/05/2017 17:16 | WG1014887 |
| Toluene | 0.000550 | J | 0.000478 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2,3-Trichlorobenzene | U | J3 | 0.000337 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.000427 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1,1-Trichloroethane | U | | 0.000315 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1,2-Trichloroethane | U | | 0.000305 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Trichloroethene | 1.23 | | 0.0307 | 0.110 | 100 | 09/04/2017 17:17 | WG1014887 |
| Trichlorofluoromethane | U | | 0.000421 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2,3-Trichloropropane | U | | 0.000816 | 0.00275 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2,3-Trimethylbenzene | U | | 0.000316 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,3,5-Trimethylbenzene | U | | 0.000293 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Vinyl acetate | U | | 0.00263 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Vinyl chloride | 0.00558 | | 0.000321 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Xylenes, Total | U | | 0.000769 | 0.00330 | 1 | 08/31/2017 03:27 | WG1014887 |
| *(S) Toluene-d8* | *113* | | | *80.0-120* | | *09/04/2017 17:17* | WG1014887 |
| *(S) Toluene-d8* | *94.1* | | | *80.0-120* | | *08/31/2017 03:27* | WG1014887 |
| *(S) Toluene-d8* | *114* | | | *80.0-120* | | *09/05/2017 17:16* | WG1014887 |
| *(S) Dibromofluoromethane* | *90.0* | | | *74.0-131* | | *09/05/2017 17:16* | WG1014887 |
| *(S) Dibromofluoromethane* | *91.6* | | | *74.0-131* | | *09/04/2017 17:17* | WG1014887 |
| *(S) Dibromofluoromethane* | *95.0* | | | *74.0-131* | | *08/31/2017 03:27* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *97.9* | | | *64.0-132* | | *09/04/2017 17:17* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *92.8* | | | *64.0-132* | | *09/05/2017 17:16* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *91.6* | | | *64.0-132* | | *08/31/2017 03:27* | WG1014887 |

## Method Blank (MB)

(MB) R3246238-1 08/31/17 13:09

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000300 | | | |

## L932260-02 Original Sample (OS) • Duplicate (DUP)

(OS) L932260-02 08/31/17 13:09 • (DUP) R3246238-3 08/31/17 13:09

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 90.6 | 90.4 | 1 | 0.136 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3246238-2 08/31/17 13:09

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3246239-1 08/31/17 11:22

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000400 | | | |

## L932260-16 Original Sample (OS) • Duplicate (DUP)

(OS) L932260-16 08/31/17 11:22 • (DUP) R3246239-3 08/31/17 11:22

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 87.0 | 87.0 | 1 | 0.0454 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3246239-2 08/31/17 11:22

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3246242-1 08/31/17 14:27

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L932250-04 Original Sample (OS) • Duplicate (DUP)

(OS) L932250-04 08/31/17 14:27 • (DUP) R3246242-3 08/31/17 14:27

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 81.2 | 80.6 | 1 | 0.777 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3246242-2 08/31/17 14:27

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3246252-1 08/31/17 15:04

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000400 | | | |

## L932261-01 Original Sample (OS) • Duplicate (DUP)

(OS) L932261-01 08/31/17 15:04 • (DUP) R3246252-3 08/31/17 15:04

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 87.4 | 86.1 | 1 | 1.46 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3246252-2 08/31/17 15:04

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3246134-3 08/29/17 14:57

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C6 - C12 | 0.0423 | J | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246134-1 08/29/17 13:51 • (LCSD) R3246134-2 08/29/17 14:13

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C6 - C12 | 5.50 | 5.33 | 5.40 | 96.9 | 98.3 | 70.0-133 | | | 1.38 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *103* | *104* | *77.0-120* | | | | |

## L932147-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932147-01 08/29/17 16:02 • (MS) R3246134-4 08/29/17 23:30 • (MSD) R3246134-5 08/29/17 23:51

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C6 - C12 | 5.50 | 98.1 | 219 | 225 | 87.9 | 91.9 | 25 | 10.0-146 | | | 2.51 | 30 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *101* | *103* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3246566-2 09/01/17 22:18

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C6 - C12 | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.9* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246566-3 09/01/17 23:02 • (LCSD) R3246566-1 09/01/17 21:34

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C6 - C12 | 5.50 | 5.37 | 5.41 | 97.6 | 98.3 | 70.0-133 | | | 0.740 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *107* | *104* | *77.0-120* | | | | |

## L932099-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932099-01 09/02/17 00:59 • (MS) R3246566-4 09/01/17 23:53 • (MSD) R3246566-5 09/02/17 00:15

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C6 - C12 | 7.62 | 3.29 | 163 | 154 | 55.2 | 52.0 | 38 | 10.0-146 | | | 5.76 | 30 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *102* | *101* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3246631-3 08/31/17 00:42

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3246631-3 08/31/17 00:42

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *91.9* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *90.6* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246631-1 08/30/17 23:40 • (LCSD) R3246631-2 08/31/17 00:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0687 | 0.108 | 55.0 | 86.1 | 11.0-160 | | J3 | 44.2 | 23 |
| Acrylonitrile | 0.125 | 0.0982 | 0.113 | 78.6 | 90.2 | 61.0-143 | | | 13.7 | 20 |
| Benzene | 0.0250 | 0.0216 | 0.0241 | 86.3 | 96.2 | 71.0-124 | | | 10.9 | 20 |
| Bromobenzene | 0.0250 | 0.0215 | 0.0229 | 86.1 | 91.5 | 78.0-120 | | | 5.98 | 20 |
| Bromodichloromethane | 0.0250 | 0.0223 | 0.0244 | 89.0 | 97.5 | 75.0-120 | | | 9.10 | 20 |
| Bromochloromethane | 0.0250 | 0.0229 | 0.0257 | 91.6 | 103 | 80.0-121 | | | 11.6 | 20 |
| Bromoform | 0.0250 | 0.0225 | 0.0245 | 89.8 | 98.1 | 65.0-133 | | | 8.84 | 20 |
| Bromomethane | 0.0250 | 0.0251 | 0.0290 | 100 | 116 | 26.0-160 | | | 14.4 | 20 |
| n-Butylbenzene | 0.0250 | 0.0210 | 0.0250 | 84.1 | 100 | 73.0-126 | | | 17.3 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0213 | 0.0239 | 85.4 | 95.6 | 75.0-121 | | | 11.4 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0217 | 0.0241 | 86.8 | 96.4 | 74.0-122 | | | 10.5 | 20 |
| Carbon disulfide | 0.0250 | 0.0251 | 0.0283 | 100 | 113 | 53.0-130 | | | 11.8 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0219 | 0.0245 | 87.4 | 97.8 | 66.0-123 | | | 11.2 | 20 |
| Chlorobenzene | 0.0250 | 0.0264 | 0.0278 | 105 | 111 | 79.0-121 | | | 5.52 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0245 | 0.0262 | 98.1 | 105 | 74.0-128 | | | 6.67 | 20 |
| Chloroethane | 0.0250 | 0.0252 | 0.0279 | 101 | 112 | 51.0-147 | | | 10.2 | 20 |
| Chloroform | 0.0250 | 0.0214 | 0.0235 | 85.8 | 94.1 | 73.0-123 | | | 9.25 | 20 |
| Chloromethane | 0.0250 | 0.0217 | 0.0241 | 86.8 | 96.5 | 51.0-138 | | | 10.6 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0222 | 0.0239 | 88.7 | 95.5 | 72.0-124 | | | 7.40 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0217 | 0.0233 | 86.9 | 93.0 | 78.0-120 | | | 6.77 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0200 | 0.0260 | 79.9 | 104 | 65.0-126 | | J3 | 26.3 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0248 | 0.0266 | 99.2 | 107 | 78.0-122 | | | 7.18 | 20 |
| Dibromomethane | 0.0250 | 0.0226 | 0.0251 | 90.3 | 100 | 79.0-120 | | | 10.6 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0235 | 0.0272 | 94.1 | 109 | 80.0-120 | | | 14.4 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0243 | 0.0268 | 97.4 | 107 | 72.0-123 | | | 9.49 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0229 | 0.0252 | 91.7 | 101 | 77.0-120 | | | 9.50 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0217 | 0.0216 | 87.0 | 86.4 | 68.0-126 | | | 0.670 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0259 | 0.0287 | 103 | 115 | 49.0-155 | | | 10.5 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0217 | 0.0241 | 86.8 | 96.2 | 70.0-128 | | | 10.3 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0220 | 0.0244 | 87.8 | 97.6 | 69.0-128 | | | 10.5 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0240 | 0.0269 | 95.9 | 108 | 63.0-131 | | | 11.4 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0211 | 0.0229 | 84.2 | 91.4 | 74.0-123 | | | 8.18 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0213 | 0.0236 | 85.2 | 94.2 | 72.0-122 | | | 10.1 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0232 | 0.0249 | 93.0 | 99.8 | 75.0-126 | | | 7.06 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0212 | 0.0236 | 84.8 | 94.4 | 72.0-130 | | | 10.7 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0252 | 0.0272 | 101 | 109 | 80.0-121 | | | 7.40 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0266 | 0.0285 | 107 | 114 | 80.0-125 | | | 6.73 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0269 | 0.0285 | 108 | 114 | 75.0-129 | | | 5.58 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0207 | 0.0228 | 82.8 | 91.2 | 60.0-129 | | | 9.74 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0192 | 0.0214 | 76.8 | 85.8 | 62.0-133 | | | 11.1 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246631-1 08/30/17 23:40 • (LCSD) R3246631-2 08/31/17 00:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0240 | 0.0258 | 95.9 | 103 | 77.0-120 | | | 7.46 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0186 | 0.0280 | 74.6 | 112 | 68.0-128 | | J3 | 40.1 | 20 |
| 2-Hexanone | 0.125 | 0.113 | 0.134 | 90.6 | 107 | 61.0-143 | | | 16.6 | 20 |
| n-Hexane | 0.0250 | 0.0195 | 0.0212 | 77.9 | 84.7 | 57.0-125 | | | 8.42 | 20 |
| Iodomethane | 0.125 | 0.139 | 0.152 | 112 | 122 | 67.0-132 | | | 8.94 | 20 |
| Isopropylbenzene | 0.0250 | 0.0216 | 0.0231 | 86.2 | 92.2 | 75.0-120 | | | 6.75 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0223 | 0.0255 | 89.3 | 102 | 74.0-125 | | | 13.2 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0921 | 0.121 | 73.6 | 97.1 | 37.0-159 | | J3 | 27.5 | 20 |
| Methylene Chloride | 0.0250 | 0.0210 | 0.0232 | 84.0 | 92.6 | 67.0-123 | | | 9.81 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.107 | 0.128 | 85.8 | 102 | 60.0-144 | | | 17.3 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0206 | 0.0233 | 82.4 | 93.3 | 66.0-125 | | | 12.4 | 20 |
| Naphthalene | 0.0250 | 0.0191 | 0.0259 | 76.4 | 104 | 64.0-125 | | J3 | 30.2 | 20 |
| n-Propylbenzene | 0.0250 | 0.0223 | 0.0241 | 89.0 | 96.2 | 78.0-120 | | | 7.78 | 20 |
| Styrene | 0.0250 | 0.0234 | 0.0247 | 93.6 | 98.8 | 78.0-124 | | | 5.45 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0241 | 0.0260 | 96.6 | 104 | 74.0-124 | | | 7.52 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0208 | 0.0232 | 83.1 | 92.7 | 73.0-120 | | | 10.9 | 20 |
| Tetrachloroethene | 0.0250 | 0.0280 | 0.0300 | 112 | 120 | 70.0-127 | | | 7.06 | 20 |
| Toluene | 0.0250 | 0.0235 | 0.0249 | 94.2 | 99.8 | 77.0-120 | | | 5.80 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0249 | 0.0271 | 99.7 | 108 | 64.0-135 | | | 8.45 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0206 | 0.0294 | 82.4 | 118 | 68.0-126 | | J3 | 35.3 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0212 | 0.0298 | 84.8 | 119 | 70.0-127 | | J3 | 33.6 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0207 | 0.0229 | 83.0 | 91.4 | 69.0-125 | | | 9.67 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0244 | 0.0256 | 97.5 | 102 | 78.0-120 | | | 4.92 | 20 |
| Trichloroethene | 0.0250 | 0.0245 | 0.0264 | 98.0 | 106 | 79.0-120 | | | 7.67 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0296 | 0.0326 | 118 | 131 | 59.0-136 | | | 9.83 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0206 | 0.0242 | 82.6 | 96.6 | 73.0-124 | | | 15.7 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0197 | 0.0221 | 78.7 | 88.5 | 76.0-120 | | | 11.7 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0204 | 0.0222 | 81.7 | 88.9 | 75.0-120 | | | 8.35 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0212 | 0.0239 | 84.8 | 95.4 | 75.0-120 | | | 11.7 | 20 |
| Vinyl acetate | 0.125 | 0.111 | 0.124 | 88.7 | 99.3 | 58.0-156 | | | 11.3 | 20 |
| Vinyl chloride | 0.0250 | 0.0291 | 0.0318 | 117 | 127 | 63.0-134 | | | 8.56 | 20 |
| Xylenes, Total | 0.0750 | 0.0705 | 0.0756 | 94.0 | 101 | 77.0-120 | | | 6.98 | 20 |
| *(S) Toluene-d8* | | | | *107* | *104* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *91.1* | *94.8* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *91.2* | *89.4* | *64.0-132* | | | | |

## L932286-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932286-05 09/04/17 20:33 • (MS) R3246743-1 09/04/17 14:59 • (MSD) R3246743-2 09/04/17 15:19

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.156 | ND | 0.154 | 0.139 | 74.4 | 64.8 | 1 | 10.0-160 | | | 10.2 | 36 |
| Acrylonitrile | 0.156 | ND | 0.199 | 0.177 | 128 | 114 | 1 | 14.0-160 | | | 11.6 | 33 |
| Benzene | 0.0312 | 0.00822 | 0.0236 | 0.0188 | 49.4 | 33.9 | 1 | 13.0-146 | | | 22.9 | 27 |
| Bromobenzene | 0.0312 | ND | 0.0217 | 0.00970 | 69.5 | 31.1 | 1 | 10.0-149 | V3 | J3 | 76.4 | 33 |
| Bromodichloromethane | 0.0312 | ND | 0.0216 | 0.0144 | 69.3 | 46.1 | 1 | 15.0-142 | | J3 | 40.3 | 28 |
| Bromochloromethane | 0.0312 | ND | 0.0218 | 0.0172 | 69.9 | 55.1 | 1 | 24.0-146 | | | 23.6 | 27 |
| Bromoform | 0.0312 | ND | 0.0201 | 0.0124 | 64.3 | 39.8 | 1 | 10.0-147 | V3 | J3 | 47.2 | 31 |
| Bromomethane | 0.0312 | ND | 0.0126 | 0.00879 | 40.4 | 28.2 | 1 | 10.0-160 | | J3 | 35.5 | 32 |
| n-Butylbenzene | 0.0312 | ND | 0.0735 | 0.0302 | 236 | 96.8 | 1 | 10.0-154 | J5 V3 | J3 | 83.6 | 37 |
| sec-Butylbenzene | 0.0312 | ND | 0.0711 | 0.0269 | 228 | 86.3 | 1 | 10.0-151 | J5 V3 | J3 | 90.1 | 36 |
| tert-Butylbenzene | 0.0312 | ND | 0.0362 | 0.0135 | 116 | 43.4 | 1 | 10.0-152 | V3 | J3 | 91.2 | 35 |
| Carbon disulfide | 0.0312 | ND | 0.00384 | 0.00258 | 12.3 | 8.27 | 1 | 10.0-141 | | J3 J6 | 39.2 | 30 |
| Carbon tetrachloride | 0.0312 | ND | 0.0205 | 0.0142 | 65.8 | 45.4 | 1 | 13.0-140 | | J3 | 36.7 | 30 |
| Chlorobenzene | 0.0312 | ND | 0.0187 | 0.0111 | 60.1 | 35.5 | 1 | 10.0-149 | | J3 | 51.6 | 31 |
| Chlorodibromomethane | 0.0312 | ND | 0.0184 | 0.0135 | 59.1 | 43.2 | 1 | 12.0-147 | | J3 | 31.1 | 29 |
| Chloroethane | 0.0312 | ND | 0.0131 | 0.00937 | 42.0 | 30.1 | 1 | 10.0-159 | | J3 | 33.1 | 33 |
| Chloroform | 0.0312 | ND | 0.0249 | 0.0188 | 80.0 | 60.3 | 1 | 18.0-148 | | | 28.0 | 28 |
| Chloromethane | 0.0312 | ND | 0.00807 | 0.00642 | 25.9 | 20.6 | 1 | 10.0-146 | | | 22.8 | 29 |
| 2-Chlorotoluene | 0.0312 | ND | 0.0235 | 0.0107 | 75.5 | 34.5 | 1 | 10.0-151 | V3 | J3 | 74.7 | 35 |
| 4-Chlorotoluene | 0.0312 | ND | 0.0203 | 0.00865 | 65.0 | 27.7 | 1 | 10.0-150 | V3 | J3 | 80.4 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0312 | ND | 0.0167 | 0.00894 | 53.6 | 28.7 | 1 | 10.0-149 | V3 | J3 | 60.7 | 34 |
| 1,2-Dibromoethane | 0.0312 | ND | 0.0188 | 0.0136 | 60.4 | 43.7 | 1 | 14.0-145 | | J3 | 32.1 | 28 |
| Dibromomethane | 0.0312 | ND | 0.0203 | 0.0171 | 65.2 | 54.9 | 1 | 18.0-144 | | | 17.1 | 27 |
| 1,2-Dichlorobenzene | 0.0312 | ND | 0.0159 | 0.00654 | 51.0 | 21.0 | 1 | 10.0-153 | V3 | J3 | 83.3 | 34 |
| 1,3-Dichlorobenzene | 0.0312 | ND | 0.0172 | 0.00750 | 55.3 | 24.1 | 1 | 10.0-150 | V3 | J3 | 78.7 | 35 |
| 1,4-Dichlorobenzene | 0.0312 | ND | 0.0166 | 0.00703 | 53.4 | 22.5 | 1 | 10.0-148 | V3 | J3 | 81.2 | 34 |
| trans-1,4-Dichloro-2-butene | 0.0312 | ND | 0.0161 | 0.0103 | 51.5 | 33.2 | 1 | 10.0-160 | V3 | J3 | 43.3 | 40 |
| Dichlorodifluoromethane | 0.0312 | ND | 0.0164 | 0.0114 | 52.5 | 36.4 | 1 | 10.0-160 | | J3 | 36.2 | 30 |
| 1,1-Dichloroethane | 0.0312 | ND | 0.0221 | 0.0160 | 70.8 | 51.4 | 1 | 19.0-148 | | J3 | 31.7 | 28 |
| 1,2-Dichloroethane | 0.0312 | 0.0124 | 0.0211 | 0.0153 | 27.7 | 9.27 | 1 | 17.0-147 | | J3 J6 | 31.6 | 27 |
| 1,1-Dichloroethene | 0.0312 | ND | 0.0208 | 0.0146 | 66.7 | 46.7 | 1 | 10.0-150 | | J3 | 35.3 | 31 |
| cis-1,2-Dichloroethene | 0.0312 | ND | 0.0218 | 0.0159 | 69.9 | 51.0 | 1 | 16.0-145 | | J3 | 31.3 | 28 |
| trans-1,2-Dichloroethene | 0.0312 | ND | 0.0145 | 0.0113 | 46.4 | 36.1 | 1 | 11.0-142 | | | 24.8 | 29 |
| 1,2-Dichloropropane | 0.0312 | ND | 0.0213 | 0.0171 | 68.3 | 54.7 | 1 | 17.0-148 | | | 22.1 | 28 |
| 1,1-Dichloropropene | 0.0312 | ND | 0.0178 | 0.0123 | 57.1 | 39.6 | 1 | 10.0-150 | | J3 | 36.3 | 30 |
| 1,3-Dichloropropane | 0.0312 | ND | 0.0190 | 0.0140 | 60.9 | 44.9 | 1 | 16.0-148 | | J3 | 30.3 | 27 |
| cis-1,3-Dichloropropene | 0.0312 | ND | 0.0188 | 0.0134 | 60.2 | 43.0 | 1 | 13.0-150 | | J3 | 33.3 | 28 |
| trans-1,3-Dichloropropene | 0.0312 | ND | 0.0163 | 0.0118 | 52.4 | 38.0 | 1 | 10.0-152 | | J3 | 31.8 | 29 |
| 2,2-Dichloropropane | 0.0312 | ND | 0.0184 | 0.0142 | 59.0 | 45.5 | 1 | 16.0-143 | | | 25.8 | 30 |

## L932286-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932286-05 09/04/17 20:33 • (MS) R3246743-1 09/04/17 14:59 • (MSD) R3246743-2 09/04/17 15:19

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Di-isopropyl ether | 0.0312 | ND | 0.0204 | 0.0154 | 65.4 | 49.4 | 1 | 16.0-149 | | | 27.9 | 28 |
| Ethylbenzene | 0.0312 | 0.00169 | 0.120 | 0.103 | 379 | 326 | 1 | 10.0-147 | J5 | J5 | 14.6 | 31 |
| Hexachloro-1,3-butadiene | 0.0312 | ND | 0.0149 | 0.00660 | 47.9 | 21.2 | 1 | 10.0-154 | V3 | J3 | 77.4 | 40 |
| 2-Hexanone | 0.156 | ND | 0.153 | 0.122 | 97.8 | 78.6 | 1 | 12.0-158 | | | 21.8 | 30 |
| n-Hexane | 0.0312 | ND | 0.0349 | 0.0462 | 105 | 141 | 1 | 10.0-140 | | J5 | 27.8 | 34 |
| Iodomethane | 0.156 | ND | 0.0725 | 0.0568 | 46.5 | 36.4 | 1 | 10.0-157 | | | 24.3 | 34 |
| Isopropylbenzene | 0.0312 | ND | 0.0877 | 0.0464 | 281 | 149 | 1 | 10.0-147 | J5 V3 | J3 J5 | 61.6 | 33 |
| p-Isopropyltoluene | 0.0312 | ND | 0.0323 | 0.0121 | 103 | 38.8 | 1 | 10.0-156 | V3 | J3 | 91.0 | 37 |
| 2-Butanone (MEK) | 0.156 | ND | 0.192 | 0.158 | 123 | 101 | 1 | 10.0-160 | | | 19.2 | 33 |
| Methylene Chloride | 0.0312 | ND | 0.0185 | 0.0140 | 59.2 | 45.0 | 1 | 16.0-139 | | | 27.2 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.156 | ND | 0.161 | 0.125 | 103 | 80.2 | 1 | 12.0-160 | | | 25.1 | 32 |
| Methyl tert-butyl ether | 0.0312 | ND | 0.0263 | 0.0205 | 84.4 | 65.7 | 1 | 21.0-145 | | | 24.9 | 29 |
| Naphthalene | 0.0312 | ND | 0.0570 | 0.0279 | 183 | 89.5 | 1 | 10.0-153 | J5 V3 | J3 | 68.5 | 36 |
| n-Propylbenzene | 0.0312 | ND | 0.0571 | 0.0265 | 182 | 83.9 | 1 | 10.0-151 | J5 V3 | J3 | 73.3 | 34 |
| Styrene | 0.0312 | ND | 0.0274 | 0.0123 | 87.8 | 39.4 | 1 | 10.0-155 | V3 | J3 | 76.0 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0312 | ND | 0.0213 | 0.0132 | 68.2 | 42.4 | 1 | 10.0-147 | | J3 | 46.6 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0312 | ND | 0.0234 | 0.0119 | 75.0 | 38.3 | 1 | 10.0-155 | V3 | J3 | 64.9 | 31 |
| Tetrachloroethene | 0.0312 | ND | 0.0210 | 0.0130 | 67.5 | 41.7 | 1 | 10.0-144 | | J3 | 47.3 | 32 |
| Toluene | 0.0312 | ND | 0.0236 | 0.0155 | 72.1 | 46.1 | 1 | 10.0-144 | | J3 | 41.5 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0312 | ND | 0.0294 | 0.0202 | 94.3 | 64.9 | 1 | 10.0-153 | | J3 | 36.9 | 33 |
| 1,2,3-Trichlorobenzene | 0.0312 | ND | 0.00441 | 0.00248 | 14.1 | 7.94 | 1 | 10.0-153 | V3 | J3 J6 | 56.2 | 40 |
| 1,2,4-Trichlorobenzene | 0.0312 | ND | 0.00690 | 0.00334 | 22.1 | 10.7 | 1 | 10.0-156 | V3 | J3 | 69.5 | 40 |
| 1,1,1-Trichloroethane | 0.0312 | ND | 0.0218 | 0.0157 | 69.8 | 50.4 | 1 | 18.0-145 | | J3 | 32.3 | 29 |
| 1,1,2-Trichloroethane | 0.0312 | ND | 0.0255 | 0.0189 | 81.7 | 60.5 | 1 | 12.0-151 | | J3 | 29.8 | 28 |
| Trichloroethene | 0.0312 | ND | 0.0180 | 0.0124 | 57.7 | 39.9 | 1 | 11.0-148 | | J3 | 36.4 | 29 |
| Trichlorofluoromethane | 0.0312 | ND | 0.0243 | 0.0174 | 78.1 | 55.8 | 1 | 10.0-157 | | | 33.2 | 34 |
| 1,2,3-Trichloropropane | 0.0312 | ND | 0.0312 | 0.0167 | 100 | 53.4 | 1 | 10.0-154 | V3 | J3 | 60.7 | 32 |
| 1,2,3-Trimethylbenzene | 0.0312 | ND | 0.0318 | 0.0128 | 102 | 41.0 | 1 | 10.0-150 | V3 | J3 | 85.3 | 33 |
| 1,2,4-Trimethylbenzene | 0.0312 | ND | 0.0265 | 0.0115 | 85.0 | 37.0 | 1 | 10.0-151 | V3 | J3 | 78.6 | 34 |
| 1,3,5-Trimethylbenzene | 0.0312 | ND | 0.0363 | 0.0232 | 116 | 74.6 | 1 | 10.0-150 | V3 | J3 | 43.8 | 33 |
| Vinyl acetate | 0.156 | ND | 0.111 | 0.0876 | 71.3 | 56.2 | 1 | 10.0-160 | | | 23.7 | 40 |
| Vinyl chloride | 0.0312 | ND | 0.0109 | 0.00833 | 35.0 | 26.7 | 1 | 10.0-150 | | | 26.9 | 29 |
| Xylenes, Total | 0.0935 | ND | 0.0682 | 0.0420 | 71.8 | 43.8 | 1 | 10.0-150 | | J3 | 47.5 | 31 |
| *(S) Toluene-d8* | | | | | *97.1* | *96.4* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *97.1* | *95.6* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *119* | *105* | | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3246344-3 08/31/17 22:20

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3246344-3 08/31/17 22:20

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *96.4* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* |

## Method Blank (MB)

(MB) R3246643-2 09/02/17 12:44

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *90.3* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *88.2* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246344-1 08/31/17 21:28 • (LCSD) R3246344-2 08/31/17 21:45

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.108 | 0.0961 | 86.5 | 76.9 | 11.0-160 | | | 11.8 | 23 |
| Acrylonitrile | 0.125 | 0.110 | 0.107 | 87.7 | 85.2 | 61.0-143 | | | 2.91 | 20 |
| Benzene | 0.0250 | 0.0221 | 0.0231 | 88.6 | 92.2 | 71.0-124 | | | 4.00 | 20 |
| Bromobenzene | 0.0250 | 0.0220 | 0.0230 | 88.1 | 91.9 | 78.0-120 | | | 4.28 | 20 |
| Bromodichloromethane | 0.0250 | 0.0208 | 0.0210 | 83.3 | 83.9 | 75.0-120 | | | 0.810 | 20 |
| Bromochloromethane | 0.0250 | 0.0221 | 0.0225 | 88.4 | 89.8 | 80.0-121 | | | 1.63 | 20 |
| Bromoform | 0.0250 | 0.0202 | 0.0202 | 80.7 | 80.9 | 65.0-133 | | | 0.310 | 20 |
| Bromomethane | 0.0250 | 0.0218 | 0.0231 | 87.1 | 92.2 | 26.0-160 | | | 5.70 | 20 |
| n-Butylbenzene | 0.0250 | 0.0213 | 0.0227 | 85.0 | 91.0 | 73.0-126 | | | 6.79 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0215 | 0.0231 | 86.1 | 92.3 | 75.0-121 | | | 6.90 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0215 | 0.0231 | 86.2 | 92.5 | 74.0-122 | | | 7.08 | 20 |
| Carbon disulfide | 0.0250 | 0.0202 | 0.0202 | 80.9 | 80.9 | 53.0-130 | | | 0.0100 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0213 | 0.0226 | 85.3 | 90.3 | 66.0-123 | | | 5.72 | 20 |
| Chlorobenzene | 0.0250 | 0.0233 | 0.0236 | 93.2 | 94.3 | 79.0-121 | | | 1.16 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0215 | 0.0216 | 86.2 | 86.2 | 74.0-128 | | | 0.0400 | 20 |
| Chloroethane | 0.0250 | 0.0220 | 0.0221 | 88.1 | 88.4 | 51.0-147 | | | 0.290 | 20 |
| Chloroform | 0.0250 | 0.0220 | 0.0228 | 87.9 | 91.2 | 73.0-123 | | | 3.62 | 20 |
| Chloromethane | 0.0250 | 0.0222 | 0.0223 | 88.9 | 89.2 | 51.0-138 | | | 0.330 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0231 | 0.0245 | 92.2 | 97.8 | 72.0-124 | | | 5.91 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0223 | 0.0232 | 89.0 | 92.8 | 78.0-120 | | | 4.17 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0216 | 0.0212 | 86.3 | 84.7 | 65.0-126 | | | 1.91 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0230 | 0.0226 | 91.9 | 90.6 | 78.0-122 | | | 1.52 | 20 |
| Dibromomethane | 0.0250 | 0.0210 | 0.0204 | 83.8 | 81.6 | 79.0-120 | | | 2.72 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0225 | 0.0243 | 90.2 | 97.2 | 80.0-120 | | | 7.51 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0231 | 0.0249 | 92.2 | 99.4 | 72.0-123 | | | 7.49 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0220 | 0.0231 | 88.1 | 92.4 | 77.0-120 | | | 4.72 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0196 | 0.0188 | 78.4 | 75.1 | 68.0-126 | | | 4.32 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0268 | 0.0292 | 107 | 117 | 49.0-155 | | | 8.35 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0218 | 0.0226 | 87.4 | 90.5 | 70.0-128 | | | 3.54 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246344-1 08/31/17 21:28 • (LCSD) R3246344-2 08/31/17 21:45

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.0250 | 0.0229 | 0.0226 | 91.4 | 90.4 | 69.0-128 | | | 1.13 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0210 | 0.0222 | 84.1 | 88.8 | 63.0-131 | | | 5.53 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0208 | 0.0210 | 83.2 | 84.1 | 74.0-123 | | | 1.00 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0210 | 0.0220 | 83.9 | 88.1 | 72.0-122 | | | 4.79 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0224 | 0.0231 | 89.7 | 92.2 | 75.0-126 | | | 2.76 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0219 | 0.0219 | 87.5 | 87.4 | 72.0-130 | | | 0.0800 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0234 | 0.0225 | 93.7 | 90.0 | 80.0-121 | | | 4.05 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0248 | 0.0254 | 99.4 | 102 | 80.0-125 | | | 2.32 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0235 | 0.0234 | 94.1 | 93.8 | 75.0-129 | | | 0.380 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0199 | 0.0208 | 79.6 | 83.1 | 60.0-129 | | | 4.27 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0213 | 0.0213 | 85.1 | 85.3 | 62.0-133 | | | 0.250 | 20 |
| Ethylbenzene | 0.0250 | 0.0215 | 0.0224 | 86.1 | 89.5 | 77.0-120 | | | 3.89 | 20 |
| 2-Hexanone | 0.125 | 0.112 | 0.104 | 89.9 | 83.0 | 61.0-143 | | | 8.01 | 20 |
| n-Hexane | 0.0250 | 0.0184 | 0.0189 | 73.7 | 75.6 | 57.0-125 | | | 2.53 | 20 |
| Iodomethane | 0.125 | 0.115 | 0.119 | 91.8 | 94.9 | 67.0-132 | | | 3.30 | 20 |
| Isopropylbenzene | 0.0250 | 0.0222 | 0.0232 | 88.7 | 92.7 | 75.0-120 | | | 4.46 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0225 | 0.0239 | 89.8 | 95.5 | 74.0-125 | | | 6.14 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.111 | 0.102 | 88.4 | 81.8 | 37.0-159 | | | 7.81 | 20 |
| Methylene Chloride | 0.0250 | 0.0212 | 0.0220 | 84.7 | 87.9 | 67.0-123 | | | 3.63 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.114 | 0.108 | 91.4 | 86.1 | 60.0-144 | | | 6.00 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0224 | 0.0220 | 89.5 | 88.0 | 66.0-125 | | | 1.68 | 20 |
| Naphthalene | 0.0250 | 0.0219 | 0.0229 | 87.7 | 91.4 | 64.0-125 | | | 4.11 | 20 |
| n-Propylbenzene | 0.0250 | 0.0223 | 0.0237 | 89.4 | 95.0 | 78.0-120 | | | 6.09 | 20 |
| Styrene | 0.0250 | 0.0233 | 0.0247 | 93.1 | 98.7 | 78.0-124 | | | 5.92 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0224 | 0.0222 | 89.8 | 88.9 | 74.0-124 | | | 1.01 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0231 | 0.0225 | 92.4 | 89.9 | 73.0-120 | | | 2.67 | 20 |
| Tetrachloroethene | 0.0250 | 0.0220 | 0.0239 | 88.1 | 95.8 | 70.0-127 | | | 8.37 | 20 |
| Toluene | 0.0250 | 0.0220 | 0.0227 | 88.1 | 90.8 | 77.0-120 | | | 3.06 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0206 | 0.0217 | 82.5 | 86.8 | 64.0-135 | | | 5.19 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0221 | 0.0225 | 88.3 | 90.1 | 68.0-126 | | | 1.93 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0206 | 0.0217 | 82.2 | 86.9 | 70.0-127 | | | 5.54 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0206 | 0.0216 | 82.6 | 86.3 | 69.0-125 | | | 4.34 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0224 | 0.0218 | 89.7 | 87.3 | 78.0-120 | | | 2.70 | 20 |
| Trichloroethene | 0.0250 | 0.0220 | 0.0227 | 87.9 | 90.9 | 79.0-120 | | | 3.26 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0217 | 0.0231 | 87.0 | 92.3 | 59.0-136 | | | 5.91 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0244 | 0.0249 | 97.5 | 99.6 | 73.0-124 | | | 2.12 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0208 | 0.0220 | 83.3 | 88.1 | 76.0-120 | | | 5.67 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0224 | 0.0235 | 89.4 | 94.0 | 75.0-120 | | | 4.93 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0222 | 0.0239 | 88.8 | 95.7 | 75.0-120 | | | 7.57 | 20 |
| Vinyl acetate | 0.125 | 0.101 | 0.101 | 81.1 | 80.5 | 58.0-156 | | | 0.740 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246344-1 08/31/17 21:28 • (LCSD) R3246344-2 08/31/17 21:45

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl chloride | 0.0250 | 0.0224 | 0.0239 | 89.5 | 95.4 | 63.0-134 | | | 6.46 | 20 |
| Xylenes, Total | 0.0750 | 0.0672 | 0.0699 | 89.6 | 93.2 | 77.0-120 | | | 3.94 | 20 |
| *(S) Toluene-d8* | | | | *103* | *103* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *96.4* | *98.2* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *96.9* | *99.3* | *64.0-132* | | | | |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246643-1 09/02/17 11:22 • (LCSD) R3246643-3 09/02/17 20:49

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | 0.0250 | 0.0254 | 0.0234 | 102 | 93.7 | 68.0-128 | | | 8.15 | 20 |
| *(S) Toluene-d8* | | | | *106* | *107* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *92.6* | *90.5* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *88.0* | *84.4* | *64.0-132* | | | | |

## L932260-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932260-09 09/01/17 01:57 • (MS) R3246344-4 09/01/17 07:27 • (MSD) R3246344-5 09/01/17 08:01

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.142 | U | 0.749 | 0.781 | 21.1 | 22.0 | 25 | 10.0-160 | | | 4.30 | 36 |
| Acrylonitrile | 0.142 | U | 1.78 | 1.93 | 50.2 | 54.5 | 25 | 14.0-160 | | | 8.21 | 33 |
| Benzene | 0.0284 | U | 0.435 | 0.483 | 61.2 | 68.0 | 25 | 13.0-146 | | | 10.4 | 27 |
| Bromobenzene | 0.0284 | U | 0.434 | 0.512 | 61.1 | 72.1 | 25 | 10.0-149 | | | 16.5 | 33 |
| Bromodichloromethane | 0.0284 | U | 0.378 | 0.426 | 53.2 | 60.0 | 25 | 15.0-142 | | | 12.1 | 28 |
| Bromochloromethane | 0.0284 | U | 0.408 | 0.451 | 57.5 | 63.5 | 25 | 24.0-146 | | | 9.93 | 27 |
| Bromoform | 0.0284 | U | 0.330 | 0.392 | 46.5 | 55.2 | 25 | 10.0-147 | | | 17.1 | 31 |
| Bromomethane | 0.0284 | U | 0.348 | 0.415 | 49.0 | 58.4 | 25 | 10.0-160 | | | 17.6 | 32 |
| n-Butylbenzene | 0.0284 | U | 0.426 | 0.462 | 60.0 | 65.1 | 25 | 10.0-154 | | | 8.17 | 37 |
| sec-Butylbenzene | 0.0284 | U | 0.450 | 0.497 | 63.3 | 70.0 | 25 | 10.0-151 | | | 9.97 | 36 |
| tert-Butylbenzene | 0.0284 | U | 0.457 | 0.504 | 64.3 | 70.9 | 25 | 10.0-152 | | | 9.74 | 35 |
| Carbon disulfide | 0.0284 | U | 0.315 | 0.346 | 44.4 | 48.8 | 25 | 10.0-141 | | | 9.34 | 30 |
| Carbon tetrachloride | 0.0284 | U | 0.441 | 0.464 | 62.1 | 65.3 | 25 | 13.0-140 | | | 5.06 | 30 |
| Chlorobenzene | 0.0284 | U | 0.424 | 0.520 | 59.7 | 73.2 | 25 | 10.0-149 | | | 20.4 | 31 |
| Chlorodibromomethane | 0.0284 | U | 0.362 | 0.439 | 51.0 | 61.8 | 25 | 12.0-147 | | | 19.2 | 29 |
| Chloroethane | 0.0284 | U | 0.264 | 0.290 | 37.2 | 40.8 | 25 | 10.0-159 | | | 9.30 | 33 |
| Chloroform | 0.0284 | U | 0.422 | 0.463 | 59.5 | 65.2 | 25 | 18.0-148 | | | 9.11 | 28 |

## L932260-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932260-09 09/01/17 01:57 • (MS) R3246344-4 09/01/17 07:27 • (MSD) R3246344-5 09/01/17 08:01

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.0284 | U | 0.441 | 0.492 | 62.2 | 69.3 | 25 | 10.0-146 | | | 10.9 | 29 |
| 2-Chlorotoluene | 0.0284 | U | 0.470 | 0.518 | 66.2 | 73.0 | 25 | 10.0-151 | | | 9.70 | 35 |
| 4-Chlorotoluene | 0.0284 | U | 0.443 | 0.502 | 62.4 | 70.6 | 25 | 10.0-150 | | | 12.4 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0284 | U | 0.341 | 0.382 | 48.1 | 53.9 | 25 | 10.0-149 | | | 11.4 | 34 |
| 1,2-Dibromoethane | 0.0284 | U | 0.387 | 0.476 | 54.5 | 67.1 | 25 | 14.0-145 | | | 20.6 | 28 |
| Dibromomethane | 0.0284 | U | 0.372 | 0.416 | 52.4 | 58.6 | 25 | 18.0-144 | | | 11.2 | 27 |
| 1,2-Dichlorobenzene | 0.0284 | U | 0.445 | 0.481 | 62.7 | 67.7 | 25 | 10.0-153 | | | 7.75 | 34 |
| 1,3-Dichlorobenzene | 0.0284 | U | 0.453 | 0.513 | 63.8 | 72.3 | 25 | 10.0-150 | | | 12.5 | 35 |
| 1,4-Dichlorobenzene | 0.0284 | U | 0.422 | 0.482 | 59.4 | 67.8 | 25 | 10.0-148 | | | 13.2 | 34 |
| trans-1,4-Dichloro-2-butene | 0.0284 | U | 0.320 | 0.385 | 45.0 | 54.2 | 25 | 10.0-160 | | | 18.4 | 40 |
| Dichlorodifluoromethane | 0.0284 | U | 0.568 | 0.622 | 80.0 | 87.6 | 25 | 10.0-160 | | | 9.05 | 30 |
| 1,1-Dichloroethane | 0.0284 | U | 0.430 | 0.479 | 60.5 | 67.4 | 25 | 19.0-148 | | | 10.7 | 28 |
| 1,2-Dichloroethane | 0.0284 | U | 0.406 | 0.458 | 57.2 | 64.5 | 25 | 17.0-147 | | | 12.1 | 27 |
| 1,1-Dichloroethene | 0.0284 | U | 0.386 | 0.405 | 54.3 | 57.0 | 25 | 10.0-150 | | | 4.79 | 31 |
| cis-1,2-Dichloroethene | 0.0284 | 0.0557 | 0.454 | 0.488 | 56.1 | 60.9 | 25 | 16.0-145 | | | 7.27 | 28 |
| trans-1,2-Dichloroethene | 0.0284 | U | 0.432 | 0.452 | 60.8 | 63.6 | 25 | 11.0-142 | | | 4.59 | 29 |
| 1,2-Dichloropropane | 0.0284 | U | 0.440 | 0.480 | 62.0 | 67.5 | 25 | 17.0-148 | | | 8.57 | 28 |
| 1,1-Dichloropropene | 0.0284 | U | 0.433 | 0.490 | 60.9 | 69.0 | 25 | 10.0-150 | | | 12.4 | 30 |
| 1,3-Dichloropropane | 0.0284 | U | 0.392 | 0.493 | 55.2 | 69.4 | 25 | 16.0-148 | | | 22.9 | 27 |
| cis-1,3-Dichloropropene | 0.0284 | U | 0.440 | 0.530 | 62.0 | 74.6 | 25 | 13.0-150 | | | 18.4 | 28 |
| trans-1,3-Dichloropropene | 0.0284 | U | 0.390 | 0.485 | 55.0 | 68.3 | 25 | 10.0-152 | | | 21.5 | 29 |
| 2,2-Dichloropropane | 0.0284 | U | 0.372 | 0.392 | 52.3 | 55.2 | 25 | 16.0-143 | | | 5.32 | 30 |
| Di-isopropyl ether | 0.0284 | U | 0.411 | 0.449 | 57.8 | 63.2 | 25 | 16.0-149 | | | 8.92 | 28 |
| Ethylbenzene | 0.0284 | U | 0.405 | 0.480 | 57.1 | 67.6 | 25 | 10.0-147 | | | 16.9 | 31 |
| Hexachloro-1,3-butadiene | 0.0284 | U | 0.378 | 0.420 | 53.2 | 59.1 | 25 | 10.0-154 | | | 10.5 | 40 |
| 2-Hexanone | 0.142 | U | 1.43 | 1.74 | 40.3 | 48.9 | 25 | 12.0-158 | | | 19.3 | 30 |
| n-Hexane | 0.0284 | U | 0.383 | 0.414 | 53.9 | 58.3 | 25 | 10.0-140 | | | 7.82 | 34 |
| Iodomethane | 0.142 | U | 2.33 | 2.46 | 65.5 | 69.2 | 25 | 10.0-157 | | | 5.48 | 34 |
| Isopropylbenzene | 0.0284 | U | 0.459 | 0.506 | 64.7 | 71.2 | 25 | 10.0-147 | | | 9.57 | 33 |
| p-Isopropyltoluene | 0.0284 | U | 0.457 | 0.508 | 64.4 | 71.5 | 25 | 10.0-156 | | | 10.5 | 37 |
| 2-Butanone (MEK) | 0.142 | U | 1.22 | 1.42 | 34.2 | 40.0 | 25 | 10.0-160 | | | 15.4 | 33 |
| Methylene Chloride | 0.0284 | U | 0.420 | 0.450 | 59.1 | 63.3 | 25 | 16.0-139 | | | 6.82 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.142 | U | 1.74 | 2.08 | 49.1 | 58.6 | 25 | 12.0-160 | | | 17.6 | 32 |
| Methyl tert-butyl ether | 0.0284 | U | 0.388 | 0.405 | 54.7 | 57.0 | 25 | 21.0-145 | | | 4.25 | 29 |
| Naphthalene | 0.0284 | U | 0.365 | 0.416 | 51.4 | 58.6 | 25 | 10.0-153 | | | 13.0 | 36 |
| n-Propylbenzene | 0.0284 | U | 0.460 | 0.514 | 64.8 | 72.3 | 25 | 10.0-151 | | | 11.1 | 34 |
| Styrene | 0.0284 | U | 0.472 | 0.548 | 66.4 | 77.2 | 25 | 10.0-155 | | | 15.0 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0284 | U | 0.415 | 0.468 | 58.4 | 65.9 | 25 | 10.0-147 | | | 12.1 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0284 | U | 0.384 | 0.439 | 54.0 | 61.8 | 25 | 10.0-155 | | | 13.4 | 31 |

## L932260-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932260-09 09/01/17 01:57 • (MS) R3246344-4 09/01/17 07:27 • (MSD) R3246344-5 09/01/17 08:01

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | 0.0284 | 0.109 | 0.507 | 0.602 | 56.1 | 69.4 | 25 | 10.0-144 | | | 17.0 | 32 |
| Toluene | 0.0284 | U | 0.415 | 0.501 | 58.4 | 70.5 | 25 | 10.0-144 | | | 18.8 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0284 | U | 0.384 | 0.410 | 54.1 | 57.8 | 25 | 10.0-153 | | | 6.56 | 33 |
| 1,2,3-Trichlorobenzene | 0.0284 | U | 0.378 | 0.445 | 53.2 | 62.6 | 25 | 10.0-153 | | | 16.2 | 40 |
| 1,2,4-Trichlorobenzene | 0.0284 | U | 0.363 | 0.412 | 51.2 | 58.0 | 25 | 10.0-156 | | | 12.6 | 40 |
| 1,1,1-Trichloroethane | 0.0284 | U | 0.414 | 0.441 | 58.3 | 62.1 | 25 | 18.0-145 | | | 6.32 | 29 |
| 1,1,2-Trichloroethane | 0.0284 | U | 0.364 | 0.452 | 51.3 | 63.7 | 25 | 12.0-151 | | | 21.6 | 28 |
| Trichloroethene | 0.0284 | 0.0373 | 0.486 | 0.545 | 63.3 | 71.4 | 25 | 11.0-148 | | | 11.3 | 29 |
| Trichlorofluoromethane | 0.0284 | U | 0.437 | 0.444 | 61.6 | 62.5 | 25 | 10.0-157 | | | 1.40 | 34 |
| 1,2,3-Trichloropropane | 0.0284 | U | 0.395 | 0.490 | 55.7 | 69.0 | 25 | 10.0-154 | | | 21.4 | 32 |
| 1,2,3-Trimethylbenzene | 0.0284 | U | 0.412 | 0.459 | 58.1 | 64.7 | 25 | 10.0-150 | | | 10.8 | 33 |
| 1,2,4-Trimethylbenzene | 0.0284 | U | 0.444 | 0.497 | 62.5 | 70.0 | 25 | 10.0-151 | | | 11.3 | 34 |
| 1,3,5-Trimethylbenzene | 0.0284 | U | 0.453 | 0.509 | 63.8 | 71.7 | 25 | 10.0-150 | | | 11.7 | 33 |
| Vinyl acetate | 0.142 | U | 0.740 | 0.908 | 20.8 | 25.6 | 25 | 10.0-160 | | | 20.4 | 40 |
| Vinyl chloride | 0.0284 | U | 0.464 | 0.499 | 65.4 | 70.3 | 25 | 10.0-150 | | | 7.21 | 29 |
| Xylenes, Total | 0.0852 | U | 1.26 | 1.49 | 59.0 | 70.0 | 25 | 10.0-150 | | | 16.9 | 31 |
| *(S) Toluene-d8* | | | | | *100* | *105* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *96.0* | *89.9* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *100* | *102* | | *64.0-132* | | | | |

Sample Narrative:

OS: Cannot analyze at a lower dilution. No more low level sodium bisulfite vials remaining.

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| V3 | The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

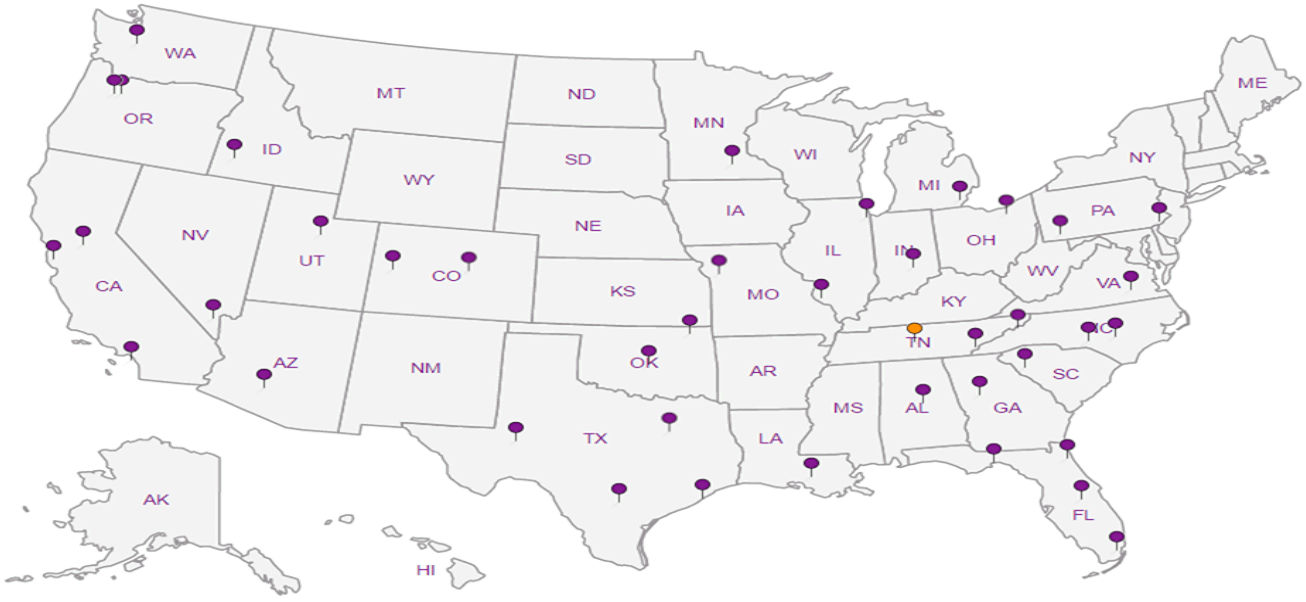
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



COOLER 1

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: **Bill Haldeman**

Email To: bhaldeman@pesenv.com

Project Description: **American Linen Project**

City/State Collected: SEATTLE, WA

Phone: **206-529-3980**
Fax: **206-529-3985**

Client Project # 1413.001.02.602

Lab Project # **PESENVSWA-ALP**

Collected by (print): SHANNON McKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH (3) | V8260C 40mlAmb-HCl (5) | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-135-65 | GRAB | ~~SS GW~~ | 65 | 8/24/17 | 1350 | ~~5~~ | X | | X | X | | | -01 |
| ~~MW~~ B-208-50 | | ~~SS GW~~ | 50 | | 1405 | ~~4~~ | | | X | X | | | -02 |
| B-208-60 | | SS | 60 | | 1435 | 4 | | | X | X | | | -03 |
| MW-135-80 | | | 80 | | 1450 | 5 | X | | X | X | | | -04 |
| B-208-70 | | | 70 | | 1525 | 4 | | | X | X | | | -05 |
| B-208-80 | | | 80 | | 1610 | 4 | | | X | X | | | -06 |
| B-209-20 | | | 20 | 8/25/17 | 0900 | 4 | | | X | X | | | -07 |
| B-209-35 | | | 35 | | 1005 | 4 | | | X | X | | | -08 |
| B-207-30 | | | 30 | | 1030 | 5 | X | | X | X | | | -09 |
| B-209-50 | | | | | 1050 | 4 | | | X | X | | | -10 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: 8-176

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 1474 0921 0388

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 8/25/17 | 1630 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| | | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by (Signature) |
| | | | |

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 0.3 °C Bottles Received: 50 100

Date: 8/26/17 Time: 0845

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Chain of Custody Page 1 of 3

ESC LABORATORY SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L932260

Table B229

Acctnum: PESENVSWA
Template: T126586
Prelogin: P613274
TSR: 110 - Brian Ford
PB: 8/10/17 MW3
Shipped Via: FedEX Ground

COOLER+2

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON McKERNAN

Site/Facility ID # 1413 001 02 602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody Page 2 of 3

ESC LAB SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L932260

Table #

Acctnum: PESENVSWA
Template: T126584
Prelogin: P613271
TSR: 110 - Brian Ford
PB:

Shipped Via: FedEX Ground

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B- B-207-40 | GRAB | SS | 40 | 8/25/17 | 1130 | 5 | X | | X | X | | HOLD | |
| B- B-209-60 | | SS | 60 | | 1135 | ~~4~~ 5 | ~~X~~ | | X | X | | | -11 |
| B- B-207-41 | | SS | 41 | | 1150 | 5 | X | | X | X | | | -12 |
| B- B-207-49 | | ~~SS~~ GW | 49 | | 1210 | ~~5~~ 6 | X | ~~X~~ | X | X | ~~X~~ | | -13 |
| B- B-209-70 | | ~~SS~~ GW | 70 | | 1405 | ~~4~~ 5 | | ~~X~~ | X | X | ~~X~~ | | -14 |
| B- B-209-75 | | SS | 75 | | 1410 | ~~4~~ 5 | ~~X~~ | | X | X | | | -15 |
| B- B-209-80 | | SS | 80 | | 1420 | ~~4~~ 5 | ~~X~~ | | X | X | | | -16 |
| B- B-207-55 | | SS | 55 | | 1420 | 5 | X | | X | X | | | -17 |
| B- B-207-60 | | SS | 60 | | 1445 | 5 | X | | X | X | | | -18 |
| B- B-209-82-W | ↓ | ~~GW SS~~ | 82 | ↓ | 1430 | ~~6~~ 5 | ~~X~~ | X | ~~X~~ | ~~X~~ | X | HOLD | |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 7474 0921 0388

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓ __N
COC Signed/Accurate: ✓ __N
Bottles arrive intact: ✓ __N
Correct bottles used: ✓ __N
Sufficient volume sent: ✓ __N
If Applicable
VOA Zero Headspace: ✓ __N
Preservation Correct/Checked: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| | 8/25/17 | 1630 | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 2.6 °C Bottles Received: 10 |
| | | | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 8/26/17 Time: 0845 |
| | | | | |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

COOLER 2

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 3 of 3

ESC LAB SCIENCES
a subsidiary of Pes Environmental

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

L# L932260

Table #

Collected by (print): SHANNON McKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Acctnum: PESENVSWA
Template: T126584
Prelogin: P613271
TSR: 110 - Brian Ford
PB:

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Shipped Via: FedEX Ground

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B- ~~209-75~~ 207-70 | GRAB | SS | 75 | 8/25/17 | 1510 | 5 | X | | X | X | | | -19 |
| B- 207-80 | ↓ | SS ~~GW~~ | 80 | ↓ | 1550 | 5 ~~6~~ | X | ~~X~~ | X | X | ~~X~~ | | -20 |
| B- | | GW | | | | 6 | | X | | | X | | |
| B- | | SS | | | | 4 | | | X | X | | | |
| B- | | SS | | | | 4 | | | X | X | | | |
| B- | | SS | | | | 4 | | | X | X | | | |
| B- | | SS | | | | 4 | | | X | X | | | |
| B- | | SS | | | | 4 | | | X | X | | | |
| B- | | SS | | | | 4 | | | X | X | | | |
| B- | | GW | | | | 6 | | X | | | X | | |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # 7474 0921 0388

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| [signature] | 8/25/17 | 1630 | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 2.6 MW 11 °C Bottles Received: 100 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) [signature] | Date: 8/26/17 Time: 0845 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

# MEMORANDUM

**TO:** Project File **DATE:** September 22, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** August 24-25, 2017 – Soil Samples

**LAB:** ESC Lab ID L932260

---

Twenty-two (22) soil samples and one (1) groundwater sample were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on August 24-25, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Two soil samples and one groundwater sample were placed on hold. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L932260. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in X# ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L934130, L934673, L934916, and). The quality assurance review of the sample data associated with SDG L932260 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on August 24-25, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 2.6 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, bromoform, trans-1,4-dichloro-2-butene, 2-hexanone, and 2-butanone (MEK) associated with analytical batch WG1015912 (analyzed on August 31, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs).

*NWTPH-Gx Method:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDL with the following exception:

- Analytical batch WG1014832: A low level of gasoline range organics was detected at 0.0423 mg/kg above the method detection limit (0.0339 mg/kg) and below the reporting limit (0.100 mg/kg) in the method blank analyzed on August 29, 2017. Gasoline was detected at low levels in the associated samples but sample concentrations exceed established action criteria for contamination in the blank. No action is taken.

*Total Solids by SM 2540 G 2011:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (% solids) were not detected at a significant level in the method blank and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C and NWTPH-Gx:*
A trip blank was not collected.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicates were not collected.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to LCS/LCSD or MS/MSD results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on a non-client sample, a client sample from another SDG, and client samples B-208-50 and B-209-80. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*

The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils with the following discussions:

- LCSD (Batch WG1014887) RPD values for compound acetone, 1,2-dibromo-3-chloropropane, hexachloro-1,3-butadiene, 2-butanone (MEK), naphthalene, 1,2,3-trichlorobenzene, and 1,2,4-trichlorobenzene are above laboratory acceptance criteria (20%) and qualified by the laboratory (J3). No action was taken on this basis as LCS/LCSD percent recovery results are recovered wide but are within control limits.

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPDs for the control analyte (gasoline) are within the laboratory control criteria for soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on a non-client sample within one of the analytical batches and on client sample B-207-30. The MS/MSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils with the following discussions:

- MS/MSD (Batch WG1014887) RPDs and % Rs are outside of laboratory criteria for multiple compounds due, in part, to matrix interference. Since this spike was performed on a non-client sample within one of the analytical batches no action will be taken. Refer to spike results on sample B-207-30 and LCS/LCSD results for accuracy and precision data.

*NWTPH-Gx Method:*
MS/MSDs were analyzed by the NWTPH-Gx method on non-client samples within the analytical batches. The MS/MSD %Rs and RPDs for the control analyte (gasoline) are within the laboratory control criteria for soils.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Sample B-207-30 was not reanalyzed at a lower dilution as there were no low level sodium bisulfite vials remaining for this sample. No action was taken other than to note this.

**Compound Identification and Quantitation Limits**

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

**Data Assessment**

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.3 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.161 | B | 0.0402 | 0.119 | 1 | 08/29/2017 20:27 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *08/29/2017 20:27* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0119 | 0.0593 | 1 | 08/31/2017 23:13 | WG1015912 |
| Acrylonitrile | U | | 0.00212 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Benzene | U | | 0.000320 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Bromobenzene | U | | 0.000337 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Bromodichloromethane | U | | 0.000301 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Bromochloromethane | U | | 0.000463 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| Bromoform | U U | J0 | 0.000503 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Bromomethane | U | | 0.00159 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| n-Butylbenzene | U | | 0.000306 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| sec-Butylbenzene | U | | 0.000239 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| tert-Butylbenzene | U | | 0.000244 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Carbon disulfide | 0.00101 J | J | 0.000262 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Carbon tetrachloride | U | | 0.000389 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Chlorobenzene | U | | 0.000252 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Chlorodibromomethane | U | | 0.000443 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Chloroethane | U | | 0.00112 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| Chloroform | U | | 0.000272 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| Chloromethane | U | | 0.000445 | 0.00297 | 1 | 08/31/2017 23:13 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000357 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000285 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000407 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Dibromomethane | U | | 0.000453 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000362 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000284 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000268 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000846 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000236 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000314 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000360 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| cis-1,2-Dichloroethene | 0.0170 | | 0.000279 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000313 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000425 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000376 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000246 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000311 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000317 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000923 | 0.00297 | 1 | 08/31/2017 23:13 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000331 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Di-isopropyl ether | U | | 0.000294 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Ethylbenzene | U | | 0.000352 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000406 | 0.00119 | 1 | 09/02/2017 13:26 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.00163 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |
| n-Hexane | U | | 0.000344 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00300 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Isopropylbenzene | U | | 0.000288 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000242 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00555 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Methylene Chloride | U | | 0.00119 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00223 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Methyl tert-butyl ether | U | | 0.000252 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Naphthalene | U | | 0.00119 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| n-Propylbenzene | U | | 0.000244 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Styrene | U | | 0.000278 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000313 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000433 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000433 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Tetrachloroethene | 0.190 | | 0.000328 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Toluene | U | | 0.000515 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000363 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000460 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000339 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000329 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Trichloroethene | 0.00881 | | 0.000331 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000453 | 0.00593 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000879 | 0.00297 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000250 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000341 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000316 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Vinyl acetate | U | | 0.00284 | 0.0119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Vinyl chloride | U | | 0.000345 | 0.00119 | 1 | 08/31/2017 23:13 | WG1015912 |
| Xylenes, Total | U | | 0.000828 | 0.00356 | 1 | 08/31/2017 23:13 | WG1015912 |
| *(S) Toluene-d8* | *99.0* | | | *80.0-120* | | *08/31/2017 23:13* | WG1015912 |
| *(S) Toluene-d8* | *99.9* | | | *80.0-120* | | *09/02/2017 13:26* | WG1015912 |
| *(S) Dibromofluoromethane* | *94.7* | | | *74.0-131* | | *09/02/2017 13:26* | WG1015912 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *08/31/2017 23:13* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *98.6* | | | *64.0-132* | | *08/31/2017 23:13* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *92.2* | | | *64.0-132* | | *09/02/2017 13:26* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.6 | | 1 | 08/31/2017 13:09 | WG1015508 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0110 | 0.0552 | 1 | 08/31/2017 23:30 | WG1015912 |
| Acrylonitrile | U | | 0.00198 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Benzene | U | | 0.000298 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Bromobenzene | U | | 0.000314 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Bromochloromethane | U | | 0.000431 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| Bromoform | U UJ | J0 | 0.000468 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Bromomethane | U | | 0.00148 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| n-Butylbenzene | U | | 0.000285 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| sec-Butylbenzene | U | | 0.000222 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Carbon disulfide | 0.000930 J | J | 0.000244 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Carbon tetrachloride | U | | 0.000362 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Chlorodibromomethane | U | | 0.000412 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Chloroethane | U | | 0.00104 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| Chloroform | U | | 0.000253 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| Chloromethane | U | | 0.000414 | 0.00276 | 1 | 08/31/2017 23:30 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000265 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000379 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Dibromomethane | U | | 0.000422 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000264 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000250 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000787 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000220 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000293 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1-Dichloroethene | 0.000389 J | J | 0.000335 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| cis-1,2-Dichloroethene | 0.0739 | | 0.000259 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| trans-1,2-Dichloroethene | 0.00455 | | 0.000291 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000395 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000350 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000229 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000295 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000859 | 0.00276 | 1 | 08/31/2017 23:30 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000308 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Di-isopropyl ether | U | | 0.000274 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Ethylbenzene | U | | 0.000328 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000378 | 0.00110 | 1 | 09/02/2017 13:46 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.00151 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |
| n-Hexane | U | | 0.000320 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00517 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Methylene Chloride | U | | 0.00110 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00208 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000234 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Naphthalene | U | | 0.00110 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000291 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000403 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000403 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Tetrachloroethene | 0.00150 | | 0.000305 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Toluene | U | | 0.000479 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000338 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000428 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000316 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000306 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Trichloroethene | U | | 0.000308 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000422 | 0.00552 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000818 | 0.00276 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000233 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000317 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000294 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Vinyl acetate | U | | 0.00264 | 0.0110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Vinyl chloride | U | | 0.000321 | 0.00110 | 1 | 08/31/2017 23:30 | WG1015912 |
| Xylenes, Total | U | | 0.000771 | 0.00331 | 1 | 08/31/2017 23:30 | WG1015912 |
| *(S) Toluene-d8* | *95.4* | | | *80.0-120* | | *08/31/2017 23:30* | WG1015912 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/02/2017 13:46* | WG1015912 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *08/31/2017 23:30* | WG1015912 |
| *(S) Dibromofluoromethane* | *92.1* | | | *74.0-131* | | *09/02/2017 13:46* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *91.6* | | | *64.0-132* | | *09/02/2017 13:46* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *99.2* | | | *64.0-132* | | *08/31/2017 23:30* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.8 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0227 J | J J0 | 0.0111 | 0.0557 | 1 | 08/31/2017 23:47 | WG1015912 |
| Acrylonitrile | U | | 0.00199 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Benzene | 0.000440 J | J | 0.000301 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Bromobenzene | U | | 0.000316 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Bromodichloromethane | U | | 0.000283 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Bromochloromethane | U | | 0.000434 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| Bromoform | U UJ | J0 | 0.000472 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Bromomethane | U | | 0.00149 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| n-Butylbenzene | U | | 0.000287 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| sec-Butylbenzene | U | | 0.000224 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| tert-Butylbenzene | U | | 0.000229 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Carbon disulfide | 0.00232 | | 0.000246 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Carbon tetrachloride | U | | 0.000365 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Chlorobenzene | U | | 0.000236 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Chlorodibromomethane | U | | 0.000415 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Chloroethane | U | | 0.00105 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| Chloroform | U | | 0.000255 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| Chloromethane | U | | 0.000418 | 0.00278 | 1 | 08/31/2017 23:47 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000335 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000267 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000382 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Dibromomethane | U | | 0.000425 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000340 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000266 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000794 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000295 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000337 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| cis-1,2-Dichloroethene | 0.000685 J | J | 0.000262 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000294 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000399 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000353 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000292 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000297 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000866 | 0.00278 | 1 | 08/31/2017 23:47 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000311 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Di-isopropyl ether | U | | 0.000276 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Ethylbenzene | U | | 0.000331 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000381 | 0.00111 | 1 | 09/02/2017 14:07 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.00153 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |
| n-Hexane | 0.0298 | | 0.000323 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Iodomethane | U | | 0.00282 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Isopropylbenzene | U | | 0.000271 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000227 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00521 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Methylene Chloride | U | | 0.00111 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00209 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000236 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Naphthalene | U | | 0.00111 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| n-Propylbenzene | U | | 0.000229 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Styrene | U | | 0.000261 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000294 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000406 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000406 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Tetrachloroethene | U | | 0.000307 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Toluene | U | | 0.000483 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000341 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000432 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000318 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000308 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Trichloroethene | U | | 0.000311 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000425 | 0.00557 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000825 | 0.00278 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000235 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000296 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Vinyl acetate | U | | 0.00266 | 0.0111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Vinyl chloride | U | | 0.000324 | 0.00111 | 1 | 08/31/2017 23:47 | WG1015912 |
| Xylenes, Total | U | | 0.000777 | 0.00334 | 1 | 08/31/2017 23:47 | WG1015912 |
| *(S) Toluene-d8* | *95.6* | | | *80.0-120* | | *08/31/2017 23:47* | WG1015912 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/02/2017 14:07* | WG1015912 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *08/31/2017 23:47* | WG1015912 |
| *(S) Dibromofluoromethane* | *94.4* | | | *74.0-131* | | *09/02/2017 14:07* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *88.9* | | | *64.0-132* | | *09/02/2017 14:07* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *08/31/2017 23:47* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.5 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.138 | B | 0.0379 | 0.112 | 1 | 08/29/2017 20:49 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.2* | | | *77.0-120* | | *08/29/2017 20:49* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0167 J | J J0 | 0.0112 | 0.0558 | 1 | 09/01/2017 00:05 | WG1015912 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Benzene | U | | 0.000302 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Bromochloromethane | U | | 0.000436 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| Bromoform | U UJ | J0 | 0.000474 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Bromomethane | U | | 0.00150 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| sec-Butylbenzene | U | | 0.000224 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Carbon disulfide | 0.000867 J | J | 0.000247 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Carbon tetrachloride | U | | 0.000366 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Chlorodibromomethane | U | | 0.000417 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Chloroethane | U | | 0.00106 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| Chloroform | U | | 0.000256 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| Chloromethane | U | | 0.000419 | 0.00279 | 1 | 09/01/2017 00:05 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000383 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Dibromomethane | U | | 0.000427 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000796 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000296 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000338 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| cis-1,2-Dichloroethene | 0.00115 | | 0.000262 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000295 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000400 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000354 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000293 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000869 | 0.00279 | 1 | 09/01/2017 00:05 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000312 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.00955 | 0.0279 | 25 | 09/02/2017 14:28 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.00153 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |
| n-Hexane | U | | 0.000324 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Isopropylbenzene | U | | 0.000271 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 2-Butanone (MEK) | U | J0 | 0.00523 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Methylene Chloride | U UJ | | 0.00112 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Naphthalene | U | | 0.00112 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Styrene | U | | 0.000261 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000408 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000408 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Tetrachloroethene | 0.0106 | | 0.000308 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Toluene | U | | 0.000485 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000433 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Trichloroethene | 0.000372 J | J | 0.000312 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000427 | 0.00558 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000828 | 0.00279 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000321 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Vinyl chloride | U | | 0.000325 | 0.00112 | 1 | 09/01/2017 00:05 | WG1015912 |
| Xylenes, Total | U | | 0.000780 | 0.00335 | 1 | 09/01/2017 00:05 | WG1015912 |
| *(S) Toluene-d8* | *97.4* | | | *80.0-120* | | *09/01/2017 00:05* | WG1015912 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/02/2017 14:28* | WG1015912 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/01/2017 00:05* | WG1015912 |
| *(S) Dibromofluoromethane* | *88.3* | | | *74.0-131* | | *09/02/2017 14:28* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/01/2017 00:05* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *89.6* | | | *64.0-132* | | *09/02/2017 14:28* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.6 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0144 J | J J0 | 0.0112 | 0.0558 | 1 | 09/01/2017 00:22 | WG1015912 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Benzene | U | | 0.000302 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Bromochloromethane | U | | 0.000436 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| Bromoform | U UJ | J0 | 0.000473 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Bromomethane | U | | 0.00150 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| sec-Butylbenzene | U | | 0.000224 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Carbon disulfide | 0.00232 | | 0.000247 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Carbon tetrachloride | U | | 0.000366 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Chlorodibromomethane | U | | 0.000417 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Chloroethane | U | | 0.00106 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| Chloroform | U | | 0.000256 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| Chloromethane | U | | 0.000419 | 0.00279 | 1 | 09/01/2017 00:22 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000383 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Dibromomethane | U | | 0.000427 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000796 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000296 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000338 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| cis-1,2-Dichloroethene | 0.000316 J | J | 0.000262 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000295 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000400 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000354 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000293 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000869 | 0.00279 | 1 | 09/01/2017 00:22 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000312 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000382 | 0.00112 | 1 | 09/02/2017 14:48 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.00153 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |
| n-Hexane | U | | 0.000324 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Isopropylbenzene | U | | 0.000271 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00523 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Methylene Chloride | U | | 0.00112 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Naphthalene | U | | 0.00112 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Styrene | U | | 0.000261 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000408 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000408 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Tetrachloroethene | U | | 0.000308 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Toluene | U | | 0.000485 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000433 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Trichloroethene | U | | 0.000312 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000427 | 0.00558 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000827 | 0.00279 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Vinyl chloride | U | | 0.000325 | 0.00112 | 1 | 09/01/2017 00:22 | WG1015912 |
| Xylenes, Total | U | | 0.000779 | 0.00335 | 1 | 09/01/2017 00:22 | WG1015912 |
| *(S) Toluene-d8* | *95.8* | | | *80.0-120* | | *09/01/2017 00:22* | WG1015912 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/02/2017 14:48* | WG1015912 |
| *(S) Dibromofluoromethane* | *89.3* | | | *74.0-131* | | *09/02/2017 14:48* | WG1015912 |
| *(S) Dibromofluoromethane* | *99.8* | | | *74.0-131* | | *09/01/2017 00:22* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *88.4* | | | *64.0-132* | | *09/02/2017 14:48* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *95.2* | | | *64.0-132* | | *09/01/2017 00:22* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.8 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0124 | 0.0619 | 1 | 09/01/2017 01:02 | WG1015912 |
| Acrylonitrile | U | | 0.00221 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Benzene | U | | 0.000334 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Bromobenzene | U | | 0.000351 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Bromodichloromethane | U | | 0.000314 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Bromochloromethane | U | | 0.000482 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| Bromoform | U UJ | J0 | 0.000525 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Bromomethane | U | | 0.00166 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| n-Butylbenzene | U | | 0.000319 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| sec-Butylbenzene | U | | 0.000249 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| tert-Butylbenzene | U | | 0.000255 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Carbon disulfide | 0.000305 J | J | 0.000273 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Carbon tetrachloride | U | | 0.000406 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Chlorobenzene | U | | 0.000262 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Chlorodibromomethane | U | | 0.000461 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Chloroethane | U | | 0.00117 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| Chloroform | U | | 0.000283 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| Chloromethane | U | | 0.000464 | 0.00309 | 1 | 09/01/2017 01:02 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000372 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000297 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00130 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000424 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Dibromomethane | U | | 0.000473 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000377 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000296 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000280 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000882 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000246 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000328 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000375 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| cis-1,2-Dichloroethene | U | | 0.000291 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000327 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000443 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000392 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000256 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000324 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000330 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000962 | 0.00309 | 1 | 09/01/2017 01:02 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000345 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Di-isopropyl ether | U | | 0.000307 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Ethylbenzene | U | | 0.000367 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000423 | 0.00124 | 1 | 09/02/2017 15:09 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.00169 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |
| n-Hexane | U | | 0.000359 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Iodomethane | U | | 0.00313 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Isopropylbenzene | U | | 0.000301 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000252 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00579 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Methylene Chloride | U | | 0.00124 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00233 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000262 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Naphthalene | U | | 0.00124 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| n-Propylbenzene | U | | 0.000255 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Styrene | U | | 0.000289 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000327 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000452 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000452 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Tetrachloroethene | U | | 0.000341 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Toluene | U | | 0.000537 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000379 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000480 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000354 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000343 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Trichloroethene | U | | 0.000345 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000473 | 0.00619 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000917 | 0.00309 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000261 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000355 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000329 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Vinyl acetate | U | | 0.00296 | 0.0124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Vinyl chloride | U | | 0.000360 | 0.00124 | 1 | 09/01/2017 01:02 | WG1015912 |
| Xylenes, Total | U | | 0.000864 | 0.00371 | 1 | 09/01/2017 01:02 | WG1015912 |
| *(S) Toluene-d8* | *95.3* | | | *80.0-120* | | *09/01/2017 01:02* | WG1015912 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/02/2017 15:09* | WG1015912 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/01/2017 01:02* | WG1015912 |
| *(S) Dibromofluoromethane* | *93.3* | | | *74.0-131* | | *09/02/2017 15:09* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *92.4* | | | *64.0-132* | | *09/02/2017 15:09* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *99.4* | | | *64.0-132* | | *09/01/2017 01:02* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.0 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0116 | 0.0581 | 1 | 09/01/2017 01:19 | WG1015912 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Benzene | U | | 0.000314 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Bromochloromethane | U | | 0.000453 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| Bromoform | U UJ | J0 | 0.000493 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Bromomethane | U | | 0.00156 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| n-Butylbenzene | U | | 0.000300 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| sec-Butylbenzene | U | | 0.000234 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Carbon disulfide | U | | 0.000257 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Chloroethane | U | | 0.00110 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| Chloroform | U | | 0.000266 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| Chloromethane | U | | 0.000436 | 0.00291 | 1 | 09/01/2017 01:19 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000350 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000399 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Dibromomethane | U | | 0.000444 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000278 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000263 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000829 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000308 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1-Dichloroethene | 0.000468 J | J | 0.000352 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| cis-1,2-Dichloroethene | 0.0174 | | 0.000273 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| trans-1,2-Dichloroethene | 0.000402 J | J | 0.000307 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000241 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000904 | 0.00291 | 1 | 09/01/2017 01:19 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 09/02/2017 15:29 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.00159 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |
| n-Hexane | 0.000396 J | J | 0.000337 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00544 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Methylene Chloride | U | | 0.00116 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Naphthalene | U | | 0.00116 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000307 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Tetrachloroethene | 0.000424 J | J | 0.000321 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Toluene | U | | 0.000504 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000356 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000451 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Trichloroethene | 0.000587 J | J | 0.000324 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000444 | 0.00581 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000861 | 0.00291 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000334 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Vinyl acetate | U | | 0.00278 | 0.0116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Vinyl chloride | 0.00168 | | 0.000338 | 0.00116 | 1 | 09/01/2017 01:19 | WG1015912 |
| Xylenes, Total | U | | 0.000811 | 0.00349 | 1 | 09/01/2017 01:19 | WG1015912 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/02/2017 15:29* | WG1015912 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/01/2017 01:19* | WG1015912 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/01/2017 01:19* | WG1015912 |
| *(S) Dibromofluoromethane* | *94.1* | | | *74.0-131* | | *09/02/2017 15:29* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *90.3* | | | *64.0-132* | | *09/02/2017 15:29* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *99.7* | | | *64.0-132* | | *09/01/2017 01:19* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.6 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0123 J | J JO | 0.0107 | 0.0534 | 1 | 09/01/2017 01:39 | WG1015912 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Benzene | U | | 0.000288 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Bromobenzene | U | | 0.000303 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Bromodichloromethane | U | | 0.000271 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Bromochloromethane | U | | 0.000417 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| Bromoform | U UJ | JO | 0.000453 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Bromomethane | U | | 0.00143 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Carbon disulfide | 0.00190 | | 0.000236 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Carbon tetrachloride | U | | 0.000350 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Chlorobenzene | U | | 0.000226 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Chlorodibromomethane | U | | 0.000398 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Chloroethane | U | | 0.00101 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| Chloroform | U | | 0.000245 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| Chloromethane | U | | 0.000401 | 0.00267 | 1 | 09/01/2017 01:39 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000321 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000256 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000366 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Dibromomethane | U | | 0.000408 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000255 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000762 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000283 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| cis-1,2-Dichloroethene | 0.0508 | | 0.000251 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| trans-1,2-Dichloroethene | 0.000840 J | J | 0.000282 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000382 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000280 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000285 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | JO | 0.000831 | 0.00267 | 1 | 09/01/2017 01:39 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000298 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Di-isopropyl ether | U | | 0.000265 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Ethylbenzene | U | | 0.000317 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000365 | 0.00107 | 1 | 09/02/2017 15:50 | WG1015912 |
| 2-Hexanone | U UJ | JO | 0.00146 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |
| n-Hexane | 0.00231 J | J | 0.000310 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Iodomethane | U | | 0.00270 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 2-Butanone (MEK) | U UJ | JO | 0.00500 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Methylene Chloride | U | | 0.00107 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Naphthalene | U | | 0.00107 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000282 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000390 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000390 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Tetrachloroethene | 0.00682 | | 0.000295 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Toluene | U | | 0.000464 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000414 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000305 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000296 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Trichloroethene | 0.00119 | | 0.000298 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000408 | 0.00534 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000791 | 0.00267 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000307 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000284 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Vinyl acetate | U | | 0.00255 | 0.0107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Vinyl chloride | 0.00915 | | 0.000311 | 0.00107 | 1 | 09/01/2017 01:39 | WG1015912 |
| Xylenes, Total | U | | 0.000746 | 0.00320 | 1 | 09/01/2017 01:39 | WG1015912 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/02/2017 15:50* | WG1015912 |
| *(S) Toluene-d8* | *95.8* | | | *80.0-120* | | *09/01/2017 01:39* | WG1015912 |
| *(S) Dibromofluoromethane* | *92.9* | | | *74.0-131* | | *09/02/2017 15:50* | WG1015912 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/01/2017 01:39* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *89.3* | | | *64.0-132* | | *09/02/2017 15:50* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *98.4* | | | *64.0-132* | | *09/01/2017 01:39* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.0 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0385 | 0.114 | 1 | 09/01/2017 04:16 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* | | *09/01/2017 04:16* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.284 | 1.42 | 25 | 09/01/2017 01:57 | WG1015912 |
| Acrylonitrile | U | | 0.0509 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Benzene | U | | 0.00767 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Bromobenzene | U | | 0.00807 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Bromodichloromethane | U | | 0.00722 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Bromochloromethane | U | | 0.0111 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| Bromoform | U UJ | J0 | 0.0120 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Bromomethane | U | | 0.0381 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| n-Butylbenzene | U | | 0.00733 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| sec-Butylbenzene | U | | 0.00570 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| tert-Butylbenzene | U | | 0.00585 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Carbon disulfide | U | | 0.00627 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Carbon tetrachloride | U | | 0.00932 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Chlorobenzene | U | | 0.00602 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Chlorodibromomethane | U | | 0.0106 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Chloroethane | U | | 0.0268 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| Chloroform | U | | 0.00650 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| Chloromethane | U | | 0.0107 | 0.0710 | 25 | 09/01/2017 01:57 | WG1015912 |
| 2-Chlorotoluene | U | | 0.00854 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 4-Chlorotoluene | U | | 0.00682 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0298 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.00975 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Dibromomethane | U | | 0.0109 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.00866 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.00679 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.00642 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.0202 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.00566 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.00752 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.00861 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| cis-1,2-Dichloroethene | 0.0557 | | 0.00668 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.00750 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.0102 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.00900 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.00589 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.00744 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.00759 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.0220 | 0.0710 | 25 | 09/01/2017 01:57 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.00793 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Di-isopropyl ether | U | | 0.00704 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Ethylbenzene | U | | 0.00843 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.00971 | 0.0284 | 25 | 09/02/2017 16:11 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.0389 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |
| n-Hexane | U | | 0.00824 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0718 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Isopropylbenzene | U | | 0.00691 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| p-Isopropyltoluene | U | | 0.00579 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 2-Butanone (MEK) | U | UJ J0 | 0.133 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Methylene Chloride | U | | 0.0284 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0534 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Methyl tert-butyl ether | U | | 0.00602 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Naphthalene | U | | 0.0284 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| n-Propylbenzene | U | | 0.00585 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Styrene | U | | 0.00665 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00750 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0104 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0104 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Tetrachloroethene | 0.109 | | 0.00784 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Toluene | U | | 0.0123 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.00869 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.0110 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.00812 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.00786 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Trichloroethene | 0.0373 | | 0.00793 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Trichlorofluoromethane | U | | 0.0109 | 0.142 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.0210 | 0.0710 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.00600 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.00816 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.00756 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Vinyl acetate | U | | 0.0679 | 0.284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Vinyl chloride | U | | 0.00827 | 0.0284 | 25 | 09/01/2017 01:57 | WG1015912 |
| Xylenes, Total | U | | 0.0198 | 0.0852 | 25 | 09/01/2017 01:57 | WG1015912 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/01/2017 01:57* | WG1015912 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/02/2017 16:11* | WG1015912 |
| *(S) Dibromofluoromethane* | *89.0* | | | *74.0-131* | | *09/01/2017 01:57* | WG1015912 |
| *(S) Dibromofluoromethane* | *96.6* | | | *74.0-131* | | *09/02/2017 16:11* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *99.1* | | | *64.0-132* | | *09/01/2017 01:57* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *92.5* | | | *64.0-132* | | *09/02/2017 16:11* | WG1015912 |

Sample Narrative:

L932260-09 WG1015912: Cannot analyze at a lower dilution. No more low level sodium bisulfite vials remaining.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.6 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0130 | 0.0652 | 1 | 09/01/2017 02:15 | WG1015912 |
| Acrylonitrile | U | | 0.00234 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Benzene | U | | 0.000352 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Bromobenzene | U | | 0.000371 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Bromodichloromethane | U | | 0.000331 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Bromochloromethane | U | | 0.000509 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| Bromoform | U UJ | J0 | 0.000553 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Bromomethane | U | | 0.00175 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| n-Butylbenzene | U | | 0.000337 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| sec-Butylbenzene | U | | 0.000262 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| tert-Butylbenzene | U | | 0.000269 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Carbon disulfide | 0.000410 J | J | 0.000288 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Carbon tetrachloride | U | | 0.000428 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Chlorobenzene | U | | 0.000277 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Chlorodibromomethane | U | | 0.000487 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Chloroethane | U | | 0.00123 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| Chloroform | U | | 0.000299 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| Chloromethane | U | | 0.000489 | 0.00326 | 1 | 09/01/2017 02:15 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000393 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000313 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00137 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000447 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Dibromomethane | U | | 0.000498 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000398 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000312 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000295 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000930 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000260 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000346 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000395 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| cis-1,2-Dichloroethene | U | | 0.000307 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000344 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000467 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000414 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000270 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000342 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000348 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.00102 | 0.00326 | 1 | 09/01/2017 02:15 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000364 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Di-isopropyl ether | U | | 0.000324 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Ethylbenzene | U | | 0.000387 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000446 | 0.00130 | 1 | 09/02/2017 16:32 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.00179 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |
| n-Hexane | 0.00124 J | J | 0.000378 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Iodomethane | U | | 0.00330 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Isopropylbenzene | U | | 0.000317 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000266 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00611 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Methylene Chloride | U | | 0.00130 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00245 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000277 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Naphthalene | U | | 0.00130 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| n-Propylbenzene | U | | 0.000269 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Styrene | U | | 0.000305 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000344 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000476 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000476 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Tetrachloroethene | U | | 0.000360 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Toluene | U | | 0.000566 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000399 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000506 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000373 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000361 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Trichloroethene | U | | 0.000364 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000498 | 0.00652 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000967 | 0.00326 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000275 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000374 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000347 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Vinyl acetate | U | | 0.00312 | 0.0130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Vinyl chloride | U | | 0.000380 | 0.00130 | 1 | 09/01/2017 02:15 | WG1015912 |
| Xylenes, Total | U | | 0.000911 | 0.00391 | 1 | 09/01/2017 02:15 | WG1015912 |
| *(S) Toluene-d8* | *98.1* | | | *80.0-120* | | *09/01/2017 02:15* | WG1015912 |
| *(S) Toluene-d8* | *99.8* | | | *80.0-120* | | *09/02/2017 16:32* | WG1015912 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/01/2017 02:15* | WG1015912 |
| *(S) Dibromofluoromethane* | *93.8* | | | *74.0-131* | | *09/02/2017 16:32* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *91.2* | | | *64.0-132* | | *09/02/2017 16:32* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *99.5* | | | *64.0-132* | | *09/01/2017 02:15* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.1 | | 1 | 08/31/2017 11:22 | WG1015509 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0115 | 0.0574 | 1 | 09/01/2017 02:32 | WG1015912 |
| Acrylonitrile | U | | 0.00205 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Benzene | U | | 0.000310 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Bromobenzene | U | | 0.000326 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Bromochloromethane | U | | 0.000448 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| Bromoform | U UJ | J0 | 0.000487 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Bromomethane | U | | 0.00154 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| n-Butylbenzene | U | | 0.000296 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| tert-Butylbenzene | U | | 0.000236 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Carbon disulfide | 0.00176 | | 0.000254 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Carbon tetrachloride | U | | 0.000376 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Chlorobenzene | U | | 0.000243 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Chlorodibromomethane | U | | 0.000428 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Chloroethane | U | | 0.00109 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| Chloroform | U | | 0.000263 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| Chloromethane | U | | 0.000430 | 0.00287 | 1 | 09/01/2017 02:32 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000346 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000275 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000394 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Dibromomethane | U | | 0.000438 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000350 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000274 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000259 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000818 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000228 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000304 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000348 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| cis-1,2-Dichloroethene | U | | 0.000270 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000303 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000411 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000364 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000306 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000893 | 0.00287 | 1 | 09/01/2017 02:32 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000320 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Di-isopropyl ether | U | | 0.000285 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Ethylbenzene | U | | 0.000341 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000393 | 0.00115 | 1 | 09/02/2017 16:52 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.00157 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |
| n-Hexane | U | | 0.000333 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Iodomethane | U | | 0.00290 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Isopropylbenzene | U | | 0.000279 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000234 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00537 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Methylene Chloride | U | | 0.00115 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000243 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Naphthalene | U | | 0.00115 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| n-Propylbenzene | U | | 0.000236 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000303 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000419 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000419 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Tetrachloroethene | U | | 0.000317 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Toluene | U | | 0.000498 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000445 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000328 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000318 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Trichloroethene | U | | 0.000320 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000438 | 0.00574 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000851 | 0.00287 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000242 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000329 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000305 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Vinyl acetate | U | | 0.00274 | 0.0115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Vinyl chloride | U | | 0.000334 | 0.00115 | 1 | 09/01/2017 02:32 | WG1015912 |
| Xylenes, Total | U | | 0.000801 | 0.00344 | 1 | 09/01/2017 02:32 | WG1015912 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/02/2017 16:52* | WG1015912 |
| *(S) Toluene-d8* | *95.0* | | | *80.0-120* | | *09/01/2017 02:32* | WG1015912 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/01/2017 02:32* | WG1015912 |
| *(S) Dibromofluoromethane* | *94.4* | | | *74.0-131* | | *09/02/2017 16:52* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/01/2017 02:32* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *86.8* | | | *64.0-132* | | *09/02/2017 16:52* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.3 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 2.24 | | 0.0384 | 0.113 | 1 | 08/29/2017 21:32 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.8* | | | *77.0-120* | | *08/29/2017 21:32* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0113 | 0.0566 | 1 | 09/01/2017 02:49 | WG1015912 |
| Acrylonitrile | U | | 0.00203 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Benzene | U | | 0.000306 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Bromobenzene | U | | 0.000322 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Bromodichloromethane | U | | 0.000288 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Bromochloromethane | U | | 0.000442 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| Bromoform | U UJ | J0 | 0.000480 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Bromomethane | U | | 0.00152 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| n-Butylbenzene | U | | 0.000292 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| sec-Butylbenzene | U | | 0.000228 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| tert-Butylbenzene | U | | 0.000233 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Carbon disulfide | 0.000483 J | J | 0.000250 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Carbon tetrachloride | U | | 0.000371 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Chlorobenzene | U | | 0.000240 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Chlorodibromomethane | U | | 0.000422 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Chloroethane | U | | 0.00107 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| Chloroform | U | | 0.000259 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| Chloromethane | U | | 0.000425 | 0.00283 | 1 | 09/01/2017 02:49 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000341 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000272 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000388 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Dibromomethane | U | | 0.000433 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000271 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000807 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000300 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1-Dichloroethene | 0.00404 | | 0.000343 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| cis-1,2-Dichloroethene | 6.93 | | 0.0134 | 0.0566 | 50 | 09/02/2017 17:13 | WG1015912 |
| trans-1,2-Dichloroethene | 0.0224 | | 0.000299 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000405 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000359 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000297 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000302 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000881 | 0.00283 | 1 | 09/01/2017 02:49 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000316 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Di-isopropyl ether | U | | 0.000281 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Ethylbenzene | U | | 0.000336 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.0194 | 0.0566 | 50 | 09/02/2017 17:13 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.00155 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |
| n-Hexane | U | | 0.000328 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00287 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Isopropylbenzene | U | | 0.000275 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000231 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 2-Butanone (MEK) | U | UJ J0 | 0.00530 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Methylene Chloride | U | | 0.00113 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00213 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Methyl tert-butyl ether | U | | 0.000240 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Naphthalene | U | | 0.00113 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| n-Propylbenzene | U | | 0.000233 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Styrene | U | | 0.000265 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000299 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000413 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000413 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Tetrachloroethene | 0.00152 | | 0.000313 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Toluene | U | | 0.000491 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000347 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000439 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000324 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000314 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Trichloroethene | U | | 0.000316 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000433 | 0.00566 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000839 | 0.00283 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000239 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000325 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000301 | 0.00113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Vinyl acetate | U | | 0.00271 | 0.0113 | 1 | 09/01/2017 02:49 | WG1015912 |
| Vinyl chloride | 0.428 | | 0.0165 | 0.0566 | 50 | 09/02/2017 17:13 | WG1015912 |
| Xylenes, Total | U | | 0.000790 | 0.00340 | 1 | 09/01/2017 02:49 | WG1015912 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/02/2017 17:13* | WG1015912 |
| *(S) Toluene-d8* | *94.4* | | | *80.0-120* | | *09/01/2017 02:49* | WG1015912 |
| *(S) Dibromofluoromethane* | *88.7* | | | *74.0-131* | | *09/02/2017 17:13* | WG1015912 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/01/2017 02:49* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *98.7* | | | *64.0-132* | | *09/01/2017 02:49* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *88.4* | | | *64.0-132* | | *09/02/2017 17:13* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.7 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.727 | | 0.0378 | 0.112 | 1 | 08/29/2017 21:54 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.8* | | | *77.0-120* | | *08/29/2017 21:54* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0169 J | J J0 | 0.0112 | 0.0558 | 1 | 09/01/2017 05:25 | WG1015912 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Benzene | 0.000397 J | J | 0.000301 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Bromodichloromethane | U | | 0.000283 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Bromochloromethane | U | | 0.000435 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| Bromoform | U UJ | J0 | 0.000473 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Bromomethane | U | | 0.00149 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| sec-Butylbenzene | U | | 0.000224 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Carbon disulfide | 0.00478 | | 0.000247 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Carbon tetrachloride | U | | 0.000366 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Chlorobenzene | U | | 0.000236 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Chlorodibromomethane | U | | 0.000416 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Chloroethane | U | | 0.00106 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| Chloroform | U | | 0.000255 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| Chloromethane | U | | 0.000418 | 0.00279 | 1 | 09/01/2017 05:25 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000383 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Dibromomethane | U | | 0.000426 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000340 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000795 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000296 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1-Dichloroethene | 0.000497 J | J | 0.000338 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| cis-1,2-Dichloroethene | 2.47 | | 0.00656 | 0.0279 | 25 | 09/02/2017 17:33 | WG1015912 |
| trans-1,2-Dichloroethene | 0.00359 | | 0.000294 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000399 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000354 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000292 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000868 | 0.00279 | 1 | 09/01/2017 05:25 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000311 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Ethylbenzene | U | | 0.000331 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.00954 | 0.0279 | 25 | 09/02/2017 17:33 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.00153 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |
| n-Hexane | 0.0285 | | 0.000323 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00282 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Isopropylbenzene | U | | 0.000271 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 2-Butanone (MEK) | U | UJ J0 | 0.00522 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Methylene Chloride | U | | 0.00112 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Methyl tert-butyl ether | U | | 0.000236 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Naphthalene | U | | 0.00112 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Styrene | U | | 0.000261 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000294 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000407 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000407 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Tetrachloroethene | 0.0325 | | 0.000308 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Toluene | U | | 0.000484 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000433 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Trichloroethene | 0.00590 | | 0.000311 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000426 | 0.00558 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000827 | 0.00279 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000235 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Vinyl chloride | 0.0261 | | 0.000325 | 0.00112 | 1 | 09/01/2017 05:25 | WG1015912 |
| Xylenes, Total | U | | 0.000779 | 0.00335 | 1 | 09/01/2017 05:25 | WG1015912 |
| *(S) Toluene-d8* | *92.2* | | | *80.0-120* | | *09/01/2017 05:25* | WG1015912 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *09/02/2017 17:33* | WG1015912 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/01/2017 05:25* | WG1015912 |
| *(S) Dibromofluoromethane* | *89.7* | | | *74.0-131* | | *09/02/2017 17:33* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *99.0* | | | *64.0-132* | | *09/01/2017 05:25* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *88.7* | | | *64.0-132* | | *09/02/2017 17:33* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.8 | | 1 | 08/31/2017 14:27 | WG1015511 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0107 | 0.0533 | 1 | 09/01/2017 05:43 | WG1015912 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Benzene | U | | 0.000288 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Bromobenzene | U | | 0.000303 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Bromodichloromethane | U | | 0.000271 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Bromochloromethane | U | | 0.000416 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| Bromoform | U UJ | J0 | 0.000452 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Bromomethane | U | | 0.00143 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| n-Butylbenzene | U | | 0.000275 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| sec-Butylbenzene | U | | 0.000214 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Carbon disulfide | 0.00130 | | 0.000235 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Carbon tetrachloride | U | | 0.000350 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Chlorobenzene | U | | 0.000226 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Chlorodibromomethane | U | | 0.000397 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Chloroethane | U | | 0.00101 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| Chloroform | U | | 0.000244 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| Chloromethane | U | | 0.000400 | 0.00266 | 1 | 09/01/2017 05:43 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000321 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000256 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000366 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Dibromomethane | U | | 0.000407 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000255 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000760 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000282 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000323 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| cis-1,2-Dichloroethene | U | | 0.000323 | 0.00137 | 1.29 | 09/02/2017 17:54 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000281 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000381 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000338 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000285 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000829 | 0.00266 | 1 | 09/01/2017 05:43 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Di-isopropyl ether | U | | 0.000264 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Ethylbenzene | U | | 0.000316 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000470 | 0.00137 | 1.29 | 09/02/2017 17:54 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.00146 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |
| n-Hexane | 0.00194 J | J | 0.000309 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Iodomethane | U | | 0.00270 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Isopropylbenzene | U | | 0.000259 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00499 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Methylene Chloride | U | | 0.00107 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Naphthalene | U | | 0.00107 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Styrene | U | | 0.000249 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000389 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000389 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Tetrachloroethene | 0.000322 J | J | 0.000294 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Toluene | U | | 0.000462 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000413 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000305 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Trichloroethene | U | | 0.000297 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000407 | 0.00533 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000790 | 0.00266 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000306 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000283 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Vinyl acetate | U | | 0.00255 | 0.0107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Vinyl chloride | U | | 0.000310 | 0.00107 | 1 | 09/01/2017 05:43 | WG1015912 |
| Xylenes, Total | U | | 0.000744 | 0.00320 | 1 | 09/01/2017 05:43 | WG1015912 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/02/2017 17:54* | WG1015912 |
| *(S) Toluene-d8* | *98.2* | | | *80.0-120* | | *09/01/2017 05:43* | WG1015912 |
| *(S) Dibromofluoromethane* | *94.0* | | | *74.0-131* | | *09/02/2017 17:54* | WG1015912 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/01/2017 05:43* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *89.6* | | | *64.0-132* | | *09/02/2017 17:54* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *96.8* | | | *64.0-132* | | *09/01/2017 05:43* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.3 | | 1 | 08/31/2017 11:22 | WG1015509 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0115 J | J J0 | 0.0106 | 0.0530 | 1 | 09/01/2017 06:00 | WG1015912 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Benzene | U | | 0.000286 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Bromobenzene | U | | 0.000301 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Bromodichloromethane | U | | 0.000269 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Bromochloromethane | U | | 0.000414 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| Bromoform | U UJ | J0 | 0.000450 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Bromomethane | U | | 0.00142 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| n-Butylbenzene | U | | 0.000274 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| sec-Butylbenzene | U | | 0.000213 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| tert-Butylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Carbon disulfide | 0.000870 J | J | 0.000234 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Carbon tetrachloride | U | | 0.000348 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Chlorobenzene | U | | 0.000225 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Chlorodibromomethane | U | | 0.000396 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Chloroethane | U | | 0.00100 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| Chloroform | U | | 0.000243 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| Chloromethane | U | | 0.000398 | 0.00265 | 1 | 09/01/2017 06:00 | WG1015912 |
| 2-Chlorotoluene | U | | 0.000319 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2-Dibromoethane | U | | 0.000364 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Dibromomethane | U | | 0.000405 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2-Dichlorobenzene | U | | 0.000323 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,3-Dichlorobenzene | U | | 0.000253 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,4-Dichlorobenzene | U | | 0.000240 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Dichlorodifluoromethane | U | | 0.000756 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1-Dichloroethane | U | | 0.000211 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2-Dichloroethane | U | | 0.000281 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1-Dichloroethene | U | | 0.000321 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| cis-1,2-Dichloroethene | U | | 0.000249 | 0.00106 | 1 | 09/02/2017 18:14 | WG1015912 |
| trans-1,2-Dichloroethene | U | | 0.000280 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2-Dichloropropane | U | | 0.000380 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1-Dichloropropene | U | | 0.000336 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| cis-1,3-Dichloropropene | U | | 0.000278 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| trans-1,3-Dichloropropene | U | | 0.000283 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000825 | 0.00265 | 1 | 09/01/2017 06:00 | WG1015912 |
| 2,2-Dichloropropane | U | | 0.000296 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Di-isopropyl ether | U | | 0.000263 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Ethylbenzene | U | | 0.000315 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Hexachloro-1,3-butadiene | U | | 0.000363 | 0.00106 | 1 | 09/02/2017 18:14 | WG1015912 |
| 2-Hexanone | U UJ | J0 | 0.00145 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |
| n-Hexane | U | | 0.000308 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Iodomethane | U | | 0.00268 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Isopropylbenzene | U | | 0.000258 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| p-Isopropyltoluene | U | | 0.000216 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00496 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Methylene Chloride | U | | 0.00106 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00199 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000225 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Naphthalene | U | | 0.00106 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| n-Propylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Styrene | U | | 0.000248 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000280 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000387 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000387 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Tetrachloroethene | U | | 0.000293 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Toluene | U | | 0.000460 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2,3-Trichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2,4-Trichlorobenzene | U | | 0.000411 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1,1-Trichloroethane | U | | 0.000303 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,1,2-Trichloroethane | U | | 0.000294 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Trichloroethene | U | | 0.000296 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Trichlorofluoromethane | U | | 0.000405 | 0.00530 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2,3-Trichloropropane | U | | 0.000786 | 0.00265 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2,4-Trimethylbenzene | U | | 0.000224 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,2,3-Trimethylbenzene | U | | 0.000304 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| 1,3,5-Trimethylbenzene | U | | 0.000282 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Vinyl acetate | U | | 0.00253 | 0.0106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Vinyl chloride | U | | 0.000309 | 0.00106 | 1 | 09/01/2017 06:00 | WG1015912 |
| Xylenes, Total | U | | 0.000740 | 0.00318 | 1 | 09/01/2017 06:00 | WG1015912 |
| *(S) Toluene-d8* | *95.9* | | | *80.0-120* | | *09/01/2017 06:00* | WG1015912 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/02/2017 18:14* | WG1015912 |
| *(S) Dibromofluoromethane* | *94.9* | | | *74.0-131* | | *09/02/2017 18:14* | WG1015912 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/01/2017 06:00* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *98.0* | | | *64.0-132* | | *09/01/2017 06:00* | WG1015912 |
| *(S) 4-Bromofluorobenzene* | *85.5* | | | *64.0-132* | | *09/02/2017 18:14* | WG1015912 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.0 | | 1 | 08/31/2017 11:22 | WG1015509 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0115 | 0.0575 | 1 | 09/04/2017 15:58 | WG1014887 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Benzene | U | | 0.000310 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Bromobenzene | U | | 0.000326 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Bromochloromethane | U | | 0.000448 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| Bromoform | U | | 0.000487 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Bromomethane | U | | 0.00154 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| n-Butylbenzene | U | | 0.000297 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| tert-Butylbenzene | U | | 0.000237 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Carbon disulfide | 0.000499 J | J | 0.000254 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Carbon tetrachloride | U | | 0.000377 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Chlorobenzene | U | | 0.000244 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Chlorodibromomethane | U | | 0.000429 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Chloroethane | U | | 0.00109 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| Chloroform | U | | 0.000263 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| Chloromethane | U | | 0.000431 | 0.00287 | 1 | 08/31/2017 02:05 | WG1014887 |
| 2-Chlorotoluene | U | | 0.000346 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 4-Chlorotoluene | U | | 0.000276 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00121 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2-Dibromoethane | U | | 0.000394 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Dibromomethane | U | | 0.000439 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2-Dichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,3-Dichlorobenzene | U | | 0.000275 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,4-Dichlorobenzene | U | | 0.000260 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Dichlorodifluoromethane | U | | 0.000819 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1-Dichloroethane | U | | 0.000229 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2-Dichloroethane | U | | 0.000305 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1-Dichloroethene | U | | 0.000348 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| cis-1,2-Dichloroethene | 0.00106 J | J | 0.000270 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| trans-1,2-Dichloroethene | U | | 0.000303 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2-Dichloropropane | U | | 0.000411 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1-Dichloropropene | U | | 0.000364 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| trans-1,3-Dichloropropene | U | | 0.000307 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| trans-1,4-Dichloro-2-butene | U | | 0.000894 | 0.00287 | 1 | 08/31/2017 02:05 | WG1014887 |
| 2,2-Dichloropropane | U | | 0.000321 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Di-isopropyl ether | U | | 0.000285 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Ethylbenzene | U | | 0.000341 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Hexachloro-1,3-butadiene | U | J3 | 0.000393 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 2-Hexanone | U | | 0.00157 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |
| n-Hexane | 0.000674 J | J | 0.000333 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Iodomethane | U | | 0.00291 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Isopropylbenzene | U | | 0.000279 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| p-Isopropyltoluene | U | | 0.000234 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 2-Butanone (MEK) | U | J3 | 0.00538 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Methylene Chloride | U | | 0.00115 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Naphthalene | U | J3 | 0.00115 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000303 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000419 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000419 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Tetrachloroethene | U | | 0.000317 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Toluene | U | | 0.000499 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2,3-Trichlorobenzene | U | J3 | 0.000352 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.000446 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1,1-Trichloroethane | U | | 0.000329 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,1,2-Trichloroethane | U | | 0.000318 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Trichloroethene | U | | 0.000321 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Trichlorofluoromethane | U | | 0.000439 | 0.00575 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2,3-Trichloropropane | U | | 0.000852 | 0.00287 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2,4-Trimethylbenzene | U | | 0.000243 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,2,3-Trimethylbenzene | U | | 0.000330 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| 1,3,5-Trimethylbenzene | U | | 0.000306 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Vinyl acetate | U | | 0.00275 | 0.0115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Vinyl chloride | U | | 0.000334 | 0.00115 | 1 | 08/31/2017 02:05 | WG1014887 |
| Xylenes, Total | U | | 0.000802 | 0.00345 | 1 | 08/31/2017 02:05 | WG1014887 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *08/31/2017 02:05* | WG1014887 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/04/2017 15:58* | WG1014887 |
| *(S) Dibromofluoromethane* | *98.9* | | | *74.0-131* | | *09/04/2017 15:58* | WG1014887 |
| *(S) Dibromofluoromethane* | *96.5* | | | *74.0-131* | | *08/31/2017 02:05* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *91.0* | | | *64.0-132* | | *08/31/2017 02:05* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/04/2017 15:58* | WG1014887 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.6 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 2.49 | | 0.0396 | 0.117 | 1 | 08/29/2017 22:24 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *08/29/2017 22:24* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.765 | 3.82 | 65.5 | 09/04/2017 16:18 | WG1014887 |
| Acrylonitrile | U | | 0.00209 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Benzene | U | | 0.000315 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Bromobenzene | U | | 0.000332 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Bromodichloromethane | U | | 0.000297 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Bromochloromethane | U | | 0.000455 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| Bromoform | U | | 0.000495 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Bromomethane | U | | 0.00156 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| n-Butylbenzene | U | | 0.000301 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| sec-Butylbenzene | U | | 0.000235 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| tert-Butylbenzene | U | | 0.000241 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Carbon disulfide | 0.000689 J | J | 0.000258 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Carbon tetrachloride | U | | 0.000383 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Chlorobenzene | U | | 0.000248 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Chlorodibromomethane | U | | 0.000436 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Chloroethane | U | | 0.00110 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| Chloroform | U | | 0.000267 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| Chloromethane | U | | 0.000438 | 0.00292 | 1 | 08/31/2017 02:25 | WG1014887 |
| 2-Chlorotoluene | U | | 0.000351 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 4-Chlorotoluene | U | | 0.000280 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00123 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2-Dibromoethane | U | | 0.000400 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Dibromomethane | U | | 0.000446 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2-Dichlorobenzene | U | | 0.000356 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,3-Dichlorobenzene | U | | 0.000279 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,4-Dichlorobenzene | U | | 0.000264 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Dichlorodifluoromethane | U | | 0.000832 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1-Dichloroethane | U | | 0.000232 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2-Dichloroethane | U | | 0.000309 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1-Dichloroethene | 0.0148 | | 0.000354 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| cis-1,2-Dichloroethene | 0.581 | | 0.0180 | 0.0765 | 65.5 | 09/04/2017 16:18 | WG1014887 |
| trans-1,2-Dichloroethene | 0.0212 | | 0.000308 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2-Dichloropropane | U | | 0.000418 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1-Dichloropropene | U | | 0.000370 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,3-Dichloropropane | U | | 0.000242 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| cis-1,3-Dichloropropene | U | | 0.000306 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| trans-1,3-Dichloropropene | U | | 0.000312 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| trans-1,4-Dichloro-2-butene | U | | 0.000908 | 0.00292 | 1 | 08/31/2017 02:25 | WG1014887 |
| 2,2-Dichloropropane | U | | 0.000326 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Di-isopropyl ether | U | | 0.000290 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Ethylbenzene | U | | 0.000347 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Hexachloro-1,3-butadiene | U | J3 | 0.000399 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 2-Hexanone | U | | 0.00160 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |
| n-Hexane | 0.000445 J | J | 0.000339 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00295 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Isopropylbenzene | U | | 0.000284 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| p-Isopropyltoluene | U | | 0.000238 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 2-Butanone (MEK) | U | J3 | 0.00546 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Methylene Chloride | U | | 0.00117 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00220 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Methyl tert-butyl ether | U | | 0.000248 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Naphthalene | U | J3 | 0.00117 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| n-Propylbenzene | U | | 0.000241 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Styrene | U | | 0.000273 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000308 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000426 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000426 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Tetrachloroethene | 0.0859 | | 0.000322 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Toluene | U | | 0.000507 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2,3-Trichlorobenzene | U | J3 | 0.000357 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.000453 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1,1-Trichloroethane | U | | 0.000334 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,1,2-Trichloroethane | U | | 0.000323 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Trichloroethene | 0.871 | | 0.0214 | 0.0765 | 65.5 | 09/04/2017 16:18 | WG1014887 |
| Trichlorofluoromethane | U | | 0.000446 | 0.00584 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2,3-Trichloropropane | U | | 0.000865 | 0.00292 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2,4-Trimethylbenzene | U | | 0.000246 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,2,3-Trimethylbenzene | U | | 0.000335 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| 1,3,5-Trimethylbenzene | U | | 0.000311 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Vinyl acetate | U | | 0.00279 | 0.0117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Vinyl chloride | 0.00887 | | 0.000340 | 0.00117 | 1 | 08/31/2017 02:25 | WG1014887 |
| Xylenes, Total | U | | 0.000815 | 0.00350 | 1 | 08/31/2017 02:25 | WG1014887 |
| *(S) Toluene-d8* | *99.6* | | | *80.0-120* | | *08/31/2017 02:25* | WG1014887 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/04/2017 16:18* | WG1014887 |
| *(S) Dibromofluoromethane* | *91.6* | | | *74.0-131* | | *09/04/2017 16:18* | WG1014887 |
| *(S) Dibromofluoromethane* | *98.1* | | | *74.0-131* | | *08/31/2017 02:25* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *93.6* | | | *64.0-132* | | *09/04/2017 16:18* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *95.7* | | | *64.0-132* | | *08/31/2017 02:25* | WG1014887 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.0 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0361 | 0.106 | 1 | 08/29/2017 22:46 | WG1014832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *08/29/2017 22:46* | WG1014832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.266 | 1.33 | 25 | 09/04/2017 16:37 | WG1014887 |
| Acrylonitrile | U | | 0.00191 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Benzene | U | | 0.000287 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Bromobenzene | U | | 0.000302 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Bromodichloromethane | U | | 0.000270 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Bromochloromethane | U | | 0.000415 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| Bromoform | U | | 0.000451 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Bromomethane | U | | 0.00143 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| n-Butylbenzene | U | | 0.000275 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| sec-Butylbenzene | U | | 0.000214 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| tert-Butylbenzene | U | | 0.000219 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Carbon disulfide | 0.00159 | | 0.000235 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Carbon tetrachloride | U | | 0.000349 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Chlorobenzene | U | | 0.000226 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Chlorodibromomethane | U | | 0.000397 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Chloroethane | U | | 0.00101 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| Chloroform | U | | 0.000244 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| Chloromethane | U | | 0.000399 | 0.00266 | 1 | 08/31/2017 02:46 | WG1014887 |
| 2-Chlorotoluene | U | | 0.000320 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00112 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2-Dibromoethane | U | | 0.000365 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Dibromomethane | U | | 0.000407 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,3-Dichlorobenzene | U | | 0.000254 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Dichlorodifluoromethane | U | | 0.000759 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2-Dichloroethane | U | | 0.000282 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1-Dichloroethene | U | | 0.000323 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| cis-1,2-Dichloroethene | U | | 0.00626 | 0.0266 | 25 | 09/04/2017 16:37 | WG1014887 |
| trans-1,2-Dichloroethene | U | | 0.000281 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2-Dichloropropane | U | | 0.000381 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1-Dichloropropene | U | | 0.000337 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| trans-1,3-Dichloropropene | U | | 0.000284 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| trans-1,4-Dichloro-2-butene | U | | 0.000828 | 0.00266 | 1 | 08/31/2017 02:46 | WG1014887 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Di-isopropyl ether | U | | 0.000264 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Ethylbenzene | U | | 0.000316 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Hexachloro-1,3-butadiene | U | J3 | 0.000364 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 2-Hexanone | U | | 0.00146 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |
| n-Hexane | U | | 0.000309 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00269 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Isopropylbenzene | U | | 0.000259 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 2-Butanone (MEK) | U | J3 | 0.00498 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Methylene Chloride | U | | 0.00106 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Methyl tert-butyl ether | U | | 0.000226 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Naphthalene | U | J3 | 0.00106 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| n-Propylbenzene | U | | 0.000219 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Styrene | U | | 0.000249 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000388 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000388 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Tetrachloroethene | U | | 0.000294 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Toluene | U | | 0.000462 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2,3-Trichlorobenzene | U | J3 | 0.000326 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.000413 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1,1-Trichloroethane | U | | 0.000304 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Trichloroethene | U | | 0.00743 | 0.0266 | 25 | 09/04/2017 16:37 | WG1014887 |
| Trichlorofluoromethane | U | | 0.000407 | 0.00532 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2,3-Trichloropropane | U | | 0.000789 | 0.00266 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,2,3-Trimethylbenzene | U | | 0.000305 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| 1,3,5-Trimethylbenzene | U | | 0.000283 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Vinyl acetate | U | | 0.00254 | 0.0106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Vinyl chloride | U | | 0.000310 | 0.00106 | 1 | 08/31/2017 02:46 | WG1014887 |
| Xylenes, Total | U | | 0.000743 | 0.00319 | 1 | 08/31/2017 02:46 | WG1014887 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/04/2017 16:37* | WG1014887 |
| *(S) Toluene-d8* | *97.5* | | | *80.0-120* | | *08/31/2017 02:46* | WG1014887 |
| *(S) Dibromofluoromethane* | *97.6* | | | *74.0-131* | | *08/31/2017 02:46* | WG1014887 |
| *(S) Dibromofluoromethane* | *90.7* | | | *74.0-131* | | *09/04/2017 16:37* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *93.0* | | | *64.0-132* | | *08/31/2017 02:46* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *95.2* | | | *64.0-132* | | *09/04/2017 16:37* | WG1014887 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.6 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.968 | 2.85 | 25 | 09/02/2017 02:06 | WG1014942 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.0* | | | *77.0-120* | | *09/02/2017 02:06* | WG1014942 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.285 | 1.43 | 25 | 09/04/2017 16:57 | WG1014887 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Bromobenzene | U | | 0.000324 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Bromodichloromethane | U | | 0.000290 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Bromochloromethane | U | | 0.000445 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| Bromoform | U | | 0.000484 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Bromomethane | U | | 0.00153 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| n-Butylbenzene | U | | 0.000295 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| sec-Butylbenzene | U | | 0.000230 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Carbon disulfide | 0.000471 J | J | 0.000252 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Carbon tetrachloride | U | | 0.000375 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Chlorodibromomethane | U | | 0.000426 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Chloroethane | U | | 0.00108 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| Chloroform | U | | 0.000262 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| Chloromethane | U | | 0.000428 | 0.00285 | 1 | 08/31/2017 03:07 | WG1014887 |
| 2-Chlorotoluene | U | | 0.000344 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 4-Chlorotoluene | U | | 0.000274 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00120 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2-Dibromoethane | U | | 0.000392 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Dibromomethane | U | | 0.000436 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2-Dichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,3-Dichlorobenzene | U | | 0.000273 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,4-Dichlorobenzene | U | | 0.000258 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Dichlorodifluoromethane | U | | 0.000814 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2-Dichloroethane | U | | 0.000303 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1-Dichloroethene | U | | 0.000346 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| cis-1,2-Dichloroethene | U | | 0.00671 | 0.0285 | 25 | 09/04/2017 16:57 | WG1014887 |
| trans-1,2-Dichloroethene | U | | 0.000301 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2-Dichloropropane | U | | 0.000409 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1-Dichloropropene | U | | 0.000362 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| cis-1,3-Dichloropropene | U | | 0.000299 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| trans-1,3-Dichloropropene | U | | 0.000305 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| trans-1,4-Dichloro-2-butene | U | | 0.000888 | 0.00285 | 1 | 08/31/2017 03:07 | WG1014887 |
| 2,2-Dichloropropane | U | | 0.000319 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Di-isopropyl ether | U | | 0.000283 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Ethylbenzene | U | | 0.000339 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Hexachloro-1,3-butadiene | U | J3 | 0.000391 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |
| n-Hexane | U | | 0.000331 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00289 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Isopropylbenzene | U | | 0.000278 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| p-Isopropyltoluene | U | | 0.000233 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 2-Butanone (MEK) | U | J3 | 0.00534 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Methylene Chloride | U | | 0.00114 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00215 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Naphthalene | U | J3 | 0.00114 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000417 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000417 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Tetrachloroethene | U | | 0.000315 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Toluene | U | | 0.000496 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2,3-Trichlorobenzene | U | J3 | 0.000349 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.000443 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1,1-Trichloroethane | U | | 0.000327 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,1,2-Trichloroethane | U | | 0.000316 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Trichloroethene | U | | 0.00797 | 0.0285 | 25 | 09/04/2017 16:57 | WG1014887 |
| Trichlorofluoromethane | U | | 0.000436 | 0.00571 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2,3-Trichloropropane | U | | 0.000846 | 0.00285 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2,4-Trimethylbenzene | U | | 0.000241 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,2,3-Trimethylbenzene | U | | 0.000328 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| 1,3,5-Trimethylbenzene | U | | 0.000304 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Vinyl acetate | U | | 0.00273 | 0.0114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Vinyl chloride | U | | 0.000332 | 0.00114 | 1 | 08/31/2017 03:07 | WG1014887 |
| Xylenes, Total | U | | 0.000797 | 0.00343 | 1 | 08/31/2017 03:07 | WG1014887 |
| *(S) Toluene-d8* | *99.1* | | | *80.0-120* | | *08/31/2017 03:07* | WG1014887 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/04/2017 16:57* | WG1014887 |
| *(S) Dibromofluoromethane* | *88.6* | | | *74.0-131* | | *09/04/2017 16:57* | WG1014887 |
| *(S) Dibromofluoromethane* | *99.8* | | | *74.0-131* | | *08/31/2017 03:07* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *97.9* | | | *64.0-132* | | *09/04/2017 16:57* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *89.4* | | | *64.0-132* | | *08/31/2017 03:07* | WG1014887 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 90.8 | | 1 | 08/31/2017 15:04 | WG1015695 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 11.7 | | 0.934 | 2.75 | 25 | 09/02/2017 02:28 | WG1014942 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.0* | | | *77.0-120* | | *09/02/2017 02:28* | WG1014942 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 1.10 | 5.51 | 100 | 09/04/2017 17:17 | WG1014887 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Benzene | U | | 0.000297 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Bromobenzene | U | | 0.000313 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Bromochloromethane | U | | 0.000430 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| Bromoform | U | | 0.000467 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Bromomethane | U | | 0.00148 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| n-Butylbenzene | U | | 0.000284 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Carbon disulfide | 0.00102 J | J | 0.000243 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Carbon tetrachloride | U | | 0.000361 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Chlorodibromomethane | U | | 0.000411 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Chloroethane | U | | 0.00104 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| Chloroform | U | | 0.000252 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| Chloromethane | U | | 0.000413 | 0.00275 | 1 | 08/31/2017 03:27 | WG1014887 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 4-Chlorotoluene | U | | 0.000264 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2-Dibromo-3-Chloropropane | U | J3 | 0.00116 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2-Dibromoethane | U | | 0.000378 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Dibromomethane | U | | 0.000421 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2-Dichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,3-Dichlorobenzene | U | | 0.000263 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,4-Dichlorobenzene | U | | 0.000249 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Dichlorodifluoromethane | U | | 0.000785 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2-Dichloroethane | U | | 0.000292 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1-Dichloroethene | 0.00773 | | 0.000334 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| cis-1,2-Dichloroethene | 0.990 | | 0.0259 | 0.110 | 100 | 09/04/2017 17:17 | WG1014887 |
| trans-1,2-Dichloroethene | 0.000601 J | J | 0.000291 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2-Dichloropropane | U | | 0.000394 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1-Dichloropropene | U | | 0.000349 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| trans-1,3-Dichloropropene | U | | 0.000294 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| trans-1,4-Dichloro-2-butene | U | | 0.000857 | 0.00275 | 1 | 08/31/2017 03:27 | WG1014887 |
| 2,2-Dichloropropane | U | | 0.000307 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Di-isopropyl ether | U | | 0.000273 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Ethylbenzene | U | | 0.000327 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Hexachloro-1,3-butadiene | U | J3 | 0.000377 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |
| n-Hexane | 0.000787 J | J | 0.000319 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 2-Butanone (MEK) | U | J3 | 0.00516 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Methylene Chloride | U | | 0.00110 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00207 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Methyl tert-butyl ether | U | | 0.000234 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Naphthalene | U | J3 | 0.00110 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000291 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000402 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000402 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Tetrachloroethene | 173 | | 0.304 | 1.10 | 1000 | 09/05/2017 17:16 | WG1014887 |
| Toluene | 0.000550 J | J | 0.000478 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2,3-Trichlorobenzene | U | J3 | 0.000337 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.000427 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1,1-Trichloroethane | U | | 0.000315 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,1,2-Trichloroethane | U | | 0.000305 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Trichloroethene | 1.23 | | 0.0307 | 0.110 | 100 | 09/04/2017 17:17 | WG1014887 |
| Trichlorofluoromethane | U | | 0.000421 | 0.00551 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2,3-Trichloropropane | U | | 0.000816 | 0.00275 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,2,3-Trimethylbenzene | U | | 0.000316 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| 1,3,5-Trimethylbenzene | U | | 0.000293 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Vinyl acetate | U | | 0.00263 | 0.0110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Vinyl chloride | 0.00558 | | 0.000321 | 0.00110 | 1 | 08/31/2017 03:27 | WG1014887 |
| Xylenes, Total | U | | 0.000769 | 0.00330 | 1 | 08/31/2017 03:27 | WG1014887 |
| *(S) Toluene-d8* | *113* | | | *80.0-120* | | *09/04/2017 17:17* | WG1014887 |
| *(S) Toluene-d8* | *94.1* | | | *80.0-120* | | *08/31/2017 03:27* | WG1014887 |
| *(S) Toluene-d8* | *114* | | | *80.0-120* | | *09/05/2017 17:16* | WG1014887 |
| *(S) Dibromofluoromethane* | *90.0* | | | *74.0-131* | | *09/05/2017 17:16* | WG1014887 |
| *(S) Dibromofluoromethane* | *91.6* | | | *74.0-131* | | *09/04/2017 17:17* | WG1014887 |
| *(S) Dibromofluoromethane* | *95.0* | | | *74.0-131* | | *08/31/2017 03:27* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *97.9* | | | *64.0-132* | | *09/04/2017 17:17* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *92.8* | | | *64.0-132* | | *09/05/2017 17:16* | WG1014887 |
| *(S) 4-Bromofluorobenzene* | *91.6* | | | *64.0-132* | | *08/31/2017 03:27* | WG1014887 |

# ANALYTICAL REPORT

September 06, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L932611 |
| Samples Received: | 08/29/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-207-90 L932611-01 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/25/17 16:50 | Received date/time: 08/29/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1016734 | 1 | 09/05/17 08:51 | 09/05/17 09:01 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1015199 | 1 | 08/25/17 16:50 | 09/03/17 01:09 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015673 | 100 | 08/25/17 16:50 | 09/04/17 19:16 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015673 | 25 | 08/25/17 16:50 | 09/01/17 16:56 | JAH |

## B-219-42 L932611-02 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/28/17 13:20 | Received date/time: 08/29/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1016734 | 1 | 09/05/17 08:51 | 09/05/17 09:01 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015673 | 1 | 08/28/17 13:20 | 09/01/17 17:15 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015673 | 1 | 08/28/17 13:20 | 09/04/17 18:50 | JAH |

## B-219-50 L932611-03 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/28/17 13:55 | Received date/time: 08/29/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1016734 | 1 | 09/05/17 08:51 | 09/05/17 09:01 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015673 | 1 | 08/28/17 13:55 | 09/01/17 17:35 | JAH |

## B-219-60 L932611-04 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/28/17 14:15 | Received date/time: 08/29/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1016734 | 1 | 09/05/17 08:51 | 09/05/17 09:01 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015673 | 1 | 08/28/17 14:15 | 09/01/17 17:55 | JAH |

## MW-136-35 L932611-05 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/28/17 14:20 | Received date/time: 08/29/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1016734 | 1 | 09/05/17 08:51 | 09/05/17 09:01 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015673 | 1 | 08/28/17 14:20 | 09/01/17 18:14 | JAH |

## B-902-15 L932611-06 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/28/17 15:00 | Received date/time: 08/29/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1016735 | 1 | 09/05/17 08:39 | 09/05/17 08:49 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015673 | 1 | 08/28/17 15:00 | 09/01/17 18:34 | JAH |

## MW-136-44 L932611-07 Solid

Collected by: Shannon Mckernan | Collected date/time: 08/28/17 12:00 | Received date/time: 08/29/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1016735 | 1 | 09/05/17 08:39 | 09/05/17 08:49 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015673 | 1 | 08/28/17 12:00 | 09/01/17 18:53 | JAH |

## B-219-70 L932611-08 Solid

| | | | Collected by | Collected date/time | Received date/time |
|---|---|---|---|---|---|
| | | | Shannon Mckernan | 08/28/17 15:50 | 08/29/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1016735 | 1 | 09/05/17 08:39 | 09/05/17 08:49 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015673 | 1 | 08/28/17 15:50 | 09/01/17 19:13 | JAH |

## TRIP BLANK-082817 L932611-09 GW

| | | | Collected by | Collected date/time | Received date/time |
|---|---|---|---|---|---|
| | | | Shannon Mckernan | 08/28/17 00:00 | 08/29/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015444 | 1 | 08/30/17 23:48 | 08/30/17 23:48 | ACG |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.0 | | 1 | 09/05/2017 09:01 | WG1016734 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.181 | B | 0.0372 | 0.110 | 1 | 09/03/2017 01:09 | WG1015199 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.0* | | | *77.0-120* | | *09/03/2017 01:09* | WG1015199 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.275 | 1.37 | 25 | 09/01/2017 16:56 | WG1015673 |
| Acrylonitrile | U | | 0.0492 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Benzene | U | | 0.00742 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Bromobenzene | U | | 0.00780 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Bromodichloromethane | U | | 0.00698 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Bromochloromethane | U | | 0.0107 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| Bromoform | U | | 0.0116 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Bromomethane | U | | 0.0368 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| n-Butylbenzene | U | | 0.00709 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| sec-Butylbenzene | U | | 0.00552 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| tert-Butylbenzene | U | | 0.00566 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Carbon disulfide | U | J3 | 0.00606 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Carbon tetrachloride | U | | 0.00901 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Chlorobenzene | U | | 0.00582 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Chlorodibromomethane | U | | 0.0102 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Chloroethane | U | | 0.0259 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| Chloroform | U | | 0.00628 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| Chloromethane | U | | 0.0103 | 0.0687 | 25 | 09/01/2017 16:56 | WG1015673 |
| 2-Chlorotoluene | U | | 0.00826 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 4-Chlorotoluene | U | | 0.00659 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0288 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.00943 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Dibromomethane | U | | 0.0105 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.00837 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.00657 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.00621 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.0196 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.00547 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.00727 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1-Dichloroethene | U | | 0.00833 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| cis-1,2-Dichloroethene | 0.311 | | 0.00646 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.00725 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.00983 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.00870 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.00569 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.00720 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.00734 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.0213 | 0.0687 | 25 | 09/01/2017 16:56 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.00767 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Di-isopropyl ether | U | J0 | 0.00681 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Ethylbenzene | U | | 0.00815 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.00939 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 2-Hexanone | U | | 0.0376 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |
| n-Hexane | U | J0 | 0.00797 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0694 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Isopropylbenzene | U | | 0.00668 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| p-Isopropyltoluene | U | | 0.00560 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 2-Butanone (MEK) | U | | 0.129 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Methylene Chloride | U | | 0.0275 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0516 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Methyl tert-butyl ether | U | | 0.00582 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Naphthalene | U | | 0.0275 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| n-Propylbenzene | U | | 0.00566 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Styrene | U | | 0.00643 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00725 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0100 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.0100 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Tetrachloroethene | 5.42 | | 0.0303 | 0.110 | 100 | 09/04/2017 19:16 | WG1015673 |
| Toluene | U | | 0.0119 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | 0.00841 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | 0.0107 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1,1-Trichloroethane | U | | 0.00786 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1,2-Trichloroethane | U | | 0.00760 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Trichloroethene | 0.462 | | 0.00767 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Trichlorofluoromethane | U | | 0.0105 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2,3-Trichloropropane | U | | 0.0203 | 0.0687 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | 0.00580 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | 0.00789 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | 0.00731 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Vinyl acetate | U | J0 | 0.0657 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Vinyl chloride | U | | 0.00800 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Xylenes, Total | U | | 0.0191 | 0.0824 | 25 | 09/01/2017 16:56 | WG1015673 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/04/2017 19:16* | WG1015673 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/01/2017 16:56* | WG1015673 |
| *(S) Dibromofluoromethane* | *94.5* | | | *74.0-131* | | *09/01/2017 16:56* | WG1015673 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/04/2017 19:16* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/04/2017 19:16* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *97.3* | | | *64.0-132* | | *09/01/2017 16:56* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.8 | | 1 | 09/05/2017 09:01 | WG1016734 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0356 | J J0 | 0.0109 | 0.0545 | 1 | 09/01/2017 17:15 | WG1015673 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Bromomethane | U | | 0.00146 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Carbon disulfide | 0.000984 | J J3 | 0.000241 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Carbon tetrachloride | U | | 0.000357 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Chlorodibromomethane | U | | 0.000406 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| Chloroform | U | | 0.000249 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| Chloromethane | U | | 0.000408 | 0.00272 | 1 | 09/01/2017 17:15 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Dibromomethane | U | | 0.000416 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000777 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| cis-1,2-Dichloroethene | 0.0179 | | 0.000256 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000847 | 0.00272 | 1 | 09/01/2017 17:15 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Di-isopropyl ether | U | J0 | 0.000270 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000372 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |
| n-Hexane | 0.00264 | J J0 | 0.000316 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 2-Butanone (MEK) | 0.0125 | | 0.00510 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000398 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Tetrachloroethene | 0.000857 | J | 0.000301 | 0.00109 | 1 | 09/04/2017 18:50 | WG1015673 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Trichloroethene | 0.000504 | J | 0.000304 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Trichlorofluoromethane | U | | 0.000416 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2,3-Trichloropropane | U | | 0.000807 | 0.00272 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Vinyl acetate | U | J0 | 0.00260 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Vinyl chloride | 0.00214 | | 0.000317 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Xylenes, Total | U | | 0.000760 | 0.00327 | 1 | 09/01/2017 17:15 | WG1015673 |
| *(S) Toluene-d8* | *96.1* | | | *80.0-120* | | *09/04/2017 18:50* | WG1015673 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/01/2017 17:15* | WG1015673 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *09/04/2017 18:50* | WG1015673 |
| *(S) Dibromofluoromethane* | *98.1* | | | *74.0-131* | | *09/01/2017 17:15* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/01/2017 17:15* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/04/2017 18:50* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.4 | | 1 | 09/05/2017 09:01 | WG1016734 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.134 | J0 | 0.0118 | 0.0592 | 1 | 09/01/2017 17:35 | WG1015673 |
| Acrylonitrile | U | | 0.00212 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Benzene | U | | 0.000320 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Bromobenzene | U | | 0.000336 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Bromodichloromethane | U | | 0.000301 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Bromochloromethane | U | | 0.000462 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| Bromoform | U | | 0.000502 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Bromomethane | U | | 0.00159 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| n-Butylbenzene | U | | 0.000306 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| sec-Butylbenzene | U | | 0.000238 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| tert-Butylbenzene | U | | 0.000244 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Carbon disulfide | 0.00184 | J3 | 0.000262 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Carbon tetrachloride | U | | 0.000388 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Chlorobenzene | U | | 0.000251 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Chlorodibromomethane | U | | 0.000442 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Chloroethane | U | | 0.00112 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| Chloroform | U | | 0.000271 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| Chloromethane | U | J0 | 0.000444 | 0.00296 | 1 | 09/01/2017 17:35 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000356 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000284 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000406 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Dibromomethane | U | | 0.000452 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000361 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000283 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000268 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000844 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000236 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000314 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1-Dichloroethene | 0.000401 | J | 0.000359 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| cis-1,2-Dichloroethene | 0.139 | | 0.000278 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| trans-1,2-Dichloroethene | 0.00107 | J | 0.000313 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000424 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000375 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000245 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000310 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000316 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000921 | 0.00296 | 1 | 09/01/2017 17:35 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000330 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Di-isopropyl ether | U | J0 | 0.000294 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Ethylbenzene | U | | 0.000352 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000405 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 2-Hexanone | 0.00471 | J | 0.00162 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |
| n-Hexane | U | J0 | 0.000343 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Iodomethane | U | | 0.00300 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Isopropylbenzene | U | | 0.000288 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000242 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 2-Butanone (MEK) | 0.169 | | 0.00554 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Methylene Chloride | U | | 0.00118 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00223 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000251 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Naphthalene | U | | 0.00118 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| n-Propylbenzene | U | | 0.000244 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Styrene | U | | 0.000277 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000313 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000432 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000432 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Tetrachloroethene | 0.0534 | J0 | 0.000327 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Toluene | U | | 0.000514 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | 0.000362 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | 0.000459 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1,1-Trichloroethane | U | | 0.000339 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1,2-Trichloroethane | U | | 0.000328 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Trichloroethene | 0.00555 | | 0.000330 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Trichlorofluoromethane | U | | 0.000452 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2,3-Trichloropropane | U | | 0.000878 | 0.00296 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | 0.000250 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | 0.000340 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | 0.000315 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Vinyl acetate | U | J0 | 0.00283 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Vinyl chloride | 0.156 | | 0.000345 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Xylenes, Total | U | | 0.000827 | 0.00355 | 1 | 09/01/2017 17:35 | WG1015673 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/01/2017 17:35* | WG1015673 |
| *(S) Dibromofluoromethane* | *99.7* | | | *74.0-131* | | *09/01/2017 17:35* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/01/2017 17:35* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.9 | | 1 | 09/05/2017 09:01 | WG1016734 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0146 | J0 | 0.0108 | 0.0538 | 1 | 09/01/2017 17:55 | WG1015673 |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Benzene | U | | 0.000291 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Bromobenzene | U | | 0.000306 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Bromodichloromethane | U | | 0.000273 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Bromochloromethane | U | | 0.000420 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| Bromoform | U | | 0.000456 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Bromomethane | U | | 0.00144 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| n-Butylbenzene | U | | 0.000278 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| sec-Butylbenzene | U | | 0.000216 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| tert-Butylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Carbon disulfide | 0.000573 | J J3 | 0.000238 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Carbon tetrachloride | U | | 0.000353 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Chlorobenzene | U | | 0.000228 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Chlorodibromomethane | U | | 0.000401 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Chloroethane | U | | 0.00102 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| Chloroform | U | | 0.000246 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| Chloromethane | U | J0 | 0.000404 | 0.00269 | 1 | 09/01/2017 17:55 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000324 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000258 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000369 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Dibromomethane | U | | 0.000411 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000767 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1-Dichloroethene | U | | 0.000326 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| cis-1,2-Dichloroethene | 0.00202 | | 0.000253 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.000284 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000385 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000341 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000223 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000282 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000287 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000837 | 0.00269 | 1 | 09/01/2017 17:55 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Di-isopropyl ether | U | J0 | 0.000267 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Ethylbenzene | U | | 0.000320 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000368 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 2-Hexanone | U | | 0.00147 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |
| n-Hexane | 0.00248 | J J0 | 0.000312 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Iodomethane | U | | 0.00272 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Isopropylbenzene | U | | 0.000262 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000220 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 2-Butanone (MEK) | U | | 0.00504 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Methylene Chloride | U | | 0.00108 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Naphthalene | U | | 0.00108 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| n-Propylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Styrene | U | | 0.000252 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000393 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000393 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Tetrachloroethene | 0.000478 | J | 0.000297 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Toluene | U | | 0.000467 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | 0.000329 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | 0.000418 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1,1-Trichloroethane | U | | 0.000308 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Trichloroethene | U | | 0.000300 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Trichlorofluoromethane | U | | 0.000411 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2,3-Trichloropropane | U | | 0.000797 | 0.00269 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | 0.000309 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Vinyl acetate | U | | 0.00257 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Vinyl chloride | 0.00161 | | 0.000313 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Xylenes, Total | U | | 0.000751 | 0.00323 | 1 | 09/01/2017 17:55 | WG1015673 |
| *(S) Toluene-d8* | *99.4* | | | *80.0-120* | | *09/01/2017 17:55* | WG1015673 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/01/2017 17:55* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/01/2017 17:55* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 95.0 | | 1 | 09/05/2017 09:01 | WG1016734 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0121 | J | 0.0105 | 0.0526 | 1 | 09/01/2017 18:14 | WG1015673 |
| Acrylonitrile | U | | 0.00188 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Benzene | U | | 0.000284 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Bromobenzene | U | | 0.000299 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Bromodichloromethane | U | | 0.000267 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Bromochloromethane | U | | 0.000410 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| Bromoform | U | | 0.000446 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Bromomethane | U | | 0.00141 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| n-Butylbenzene | U | | 0.000272 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| sec-Butylbenzene | U | | 0.000212 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| tert-Butylbenzene | U | | 0.000217 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Carbon disulfide | 0.00210 | J3 | 0.000233 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Carbon tetrachloride | U | | 0.000345 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Chlorobenzene | U | | 0.000223 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Chlorodibromomethane | U | | 0.000393 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Chloroethane | U | | 0.000996 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| Chloroform | U | | 0.000241 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| Chloromethane | U | J0 | 0.000395 | 0.00263 | 1 | 09/01/2017 18:14 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000317 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000253 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000361 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Dibromomethane | U | | 0.000402 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000321 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000252 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000238 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000750 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000209 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000279 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1-Dichloroethene | U | | 0.000319 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| cis-1,2-Dichloroethene | 0.0117 | | 0.000247 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.000278 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000377 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000334 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000218 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000276 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000281 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000819 | 0.00263 | 1 | 09/01/2017 18:14 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000294 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Di-isopropyl ether | U | | 0.000261 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Ethylbenzene | U | | 0.000313 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000360 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 2-Hexanone | U | | 0.00144 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |
| n-Hexane | 0.00176 | J J0 | 0.000305 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Iodomethane | U | | 0.00266 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Isopropylbenzene | U | | 0.000256 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000215 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 2-Butanone (MEK) | U | | 0.00493 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Methylene Chloride | U | | 0.00105 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00198 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000223 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Naphthalene | U | | 0.00105 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| n-Propylbenzene | U | | 0.000217 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Styrene | U | | 0.000246 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000278 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000384 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000384 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Tetrachloroethene | 0.00777 | J0 | 0.000290 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Toluene | U | | 0.000457 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | 0.000322 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | 0.000408 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1,1-Trichloroethane | U | | 0.000301 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1,2-Trichloroethane | U | | 0.000292 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Trichloroethene | 0.000437 | J | 0.000294 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Trichlorofluoromethane | U | | 0.000402 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2,3-Trichloropropane | U | | 0.000780 | 0.00263 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | 0.000222 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | 0.000302 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | 0.000280 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Vinyl acetate | U | J0 | 0.00252 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Vinyl chloride | U | | 0.000306 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Xylenes, Total | U | | 0.000735 | 0.00316 | 1 | 09/01/2017 18:14 | WG1015673 |
| *(S) Toluene-d8* | *99.5* | | | *80.0-120* | | *09/01/2017 18:14* | WG1015673 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/01/2017 18:14* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/01/2017 18:14* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.6 | | 1 | 09/05/2017 08:49 | WG1016735 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0109 | 0.0546 | 1 | 09/01/2017 18:34 | WG1015673 |
| Acrylonitrile | U | | 0.00196 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Benzene | U | | 0.000295 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Bromochloromethane | U | | 0.000426 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| Bromoform | U | | 0.000463 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Bromomethane | U | | 0.00146 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| n-Butylbenzene | U | | 0.000282 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| sec-Butylbenzene | U | | 0.000220 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Carbon disulfide | 0.00126 | J3 | 0.000241 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Chlorobenzene | U | | 0.000232 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Chloroethane | U | | 0.00103 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| Chloroform | U | | 0.000250 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| Chloromethane | U | J0 | 0.000410 | 0.00273 | 1 | 09/01/2017 18:34 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000329 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000375 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000247 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000779 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1-Dichloroethene | U | | 0.000331 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| cis-1,2-Dichloroethene | 0.0141 | | 0.000257 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000391 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000292 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000850 | 0.00273 | 1 | 09/01/2017 18:34 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000305 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Di-isopropyl ether | U | J0 | 0.000271 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000374 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 2-Hexanone | U | | 0.00150 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |
| n-Hexane | 0.000689 | J J0 | 0.000317 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 2-Butanone (MEK) | U | | 0.00511 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Methylene Chloride | U | | 0.00109 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000232 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Naphthalene | U | | 0.00109 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Styrene | U | | 0.000256 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000399 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000399 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Tetrachloroethene | 0.00621 | | 0.000301 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Toluene | U | | 0.000474 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | 0.000424 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1,2-Trichloroethane | U | | 0.000303 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Trichloroethene | 0.000324 | J | 0.000305 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Trichlorofluoromethane | U | | 0.000417 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2,3-Trichloropropane | U | | 0.000809 | 0.00273 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | 0.000291 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Vinyl acetate | U | J0 | 0.00261 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Vinyl chloride | U | | 0.000318 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Xylenes, Total | U | | 0.000762 | 0.00328 | 1 | 09/01/2017 18:34 | WG1015673 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/01/2017 18:34* | WG1015673 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/01/2017 18:34* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/01/2017 18:34* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.1 | | 1 | 09/05/2017 08:49 | WG1016735 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0239 | J | 0.0112 | 0.0561 | 1 | 09/01/2017 18:53 | WG1015673 |
| Acrylonitrile | U | | 0.00201 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Benzene | U | | 0.000303 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Bromobenzene | U | | 0.000319 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Bromodichloromethane | U | | 0.000285 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Bromochloromethane | U | | 0.000438 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| Bromoform | U | | 0.000476 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Bromomethane | U | | 0.00150 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| n-Butylbenzene | U | | 0.000290 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| sec-Butylbenzene | U | | 0.000226 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| tert-Butylbenzene | U | | 0.000231 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Carbon disulfide | 0.00112 | J J3 | 0.000248 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Carbon tetrachloride | U | | 0.000368 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Chlorobenzene | U | | 0.000238 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Chlorodibromomethane | U | | 0.000419 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Chloroethane | U | | 0.00106 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| Chloroform | U | | 0.000257 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| Chloromethane | U | J0 | 0.000421 | 0.00281 | 1 | 09/01/2017 18:53 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000338 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000269 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000385 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Dibromomethane | U | | 0.000429 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000268 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000254 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000800 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000223 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000297 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1-Dichloroethene | 0.000371 | J | 0.000340 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| cis-1,2-Dichloroethene | 0.174 | | 0.000264 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.000296 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000402 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000356 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000232 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000294 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000300 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000873 | 0.00281 | 1 | 09/01/2017 18:53 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000313 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Di-isopropyl ether | U | J0 | 0.000278 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Ethylbenzene | U | | 0.000333 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000384 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 2-Hexanone | U | | 0.00154 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |
| n-Hexane | 0.000656 | J | 0.000325 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Iodomethane | U | | 0.00284 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Isopropylbenzene | U | | 0.000273 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000229 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 2-Butanone (MEK) | 0.0640 | | 0.00525 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Methylene Chloride | U | | 0.00112 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00211 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000238 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Naphthalene | U | | 0.00112 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| n-Propylbenzene | U | | 0.000231 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Styrene | U | | 0.000263 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000296 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000410 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000410 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Tetrachloroethene | 0.0853 | J0 | 0.000310 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Toluene | U | | 0.000487 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | 0.000343 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | 0.000435 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1,1-Trichloroethane | U | | 0.000321 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1,2-Trichloroethane | U | | 0.000311 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Trichloroethene | 0.00255 | | 0.000313 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Trichlorofluoromethane | U | | 0.000429 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2,3-Trichloropropane | U | | 0.000832 | 0.00281 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | 0.000237 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | 0.000322 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | 0.000299 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Vinyl acetate | U | J0 | 0.00268 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Vinyl chloride | U | | 0.000327 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Xylenes, Total | U | | 0.000783 | 0.00337 | 1 | 09/01/2017 18:53 | WG1015673 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/01/2017 18:53* | WG1015673 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/01/2017 18:53* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/01/2017 18:53* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.6 | | 1 | 09/05/2017 08:49 | WG1016735 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0237 | J | 0.0114 | 0.0571 | 1 | 09/01/2017 19:13 | WG1015673 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Bromobenzene | U | | 0.000324 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Bromodichloromethane | U | | 0.000290 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Bromochloromethane | U | | 0.000445 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| Bromoform | U | | 0.000484 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Bromomethane | U | | 0.00153 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Carbon disulfide | 0.00345 | J3 | 0.000252 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Carbon tetrachloride | U | | 0.000374 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Chlorodibromomethane | U | | 0.000426 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Chloroethane | U | | 0.00108 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| Chloroform | U | | 0.000261 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| Chloromethane | U | J0 | 0.000428 | 0.00285 | 1 | 09/01/2017 19:13 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000274 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Dibromomethane | U | | 0.000436 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000273 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000258 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000814 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1-Dichloroethene | U | | 0.000346 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| cis-1,2-Dichloroethene | 0.00307 | | 0.000268 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.000301 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000409 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000362 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000299 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000305 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000888 | 0.00285 | 1 | 09/01/2017 19:13 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Di-isopropyl ether | U | J0 | 0.000283 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Ethylbenzene | U | | 0.000339 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000390 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |
| n-Hexane | 0.00634 | J | 0.000331 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Iodomethane | U | | 0.00289 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000233 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 2-Butanone (MEK) | 0.0183 | | 0.00534 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Methylene Chloride | U | | 0.00114 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00215 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Naphthalene | U | | 0.00114 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000417 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000417 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Tetrachloroethene | 0.00134 | J0 | 0.000315 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Toluene | U | | 0.000495 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | 0.000443 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1,2-Trichloroethane | U | | 0.000316 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Trichloroethene | U | | 0.000318 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Trichlorofluoromethane | U | | 0.000436 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2,3-Trichloropropane | U | | 0.000846 | 0.00285 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | 0.000241 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | 0.000328 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | 0.000304 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Vinyl acetate | U | J0 | 0.00273 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Vinyl chloride | 0.000670 | J | 0.000332 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Xylenes, Total | U | | 0.000797 | 0.00342 | 1 | 09/01/2017 19:13 | WG1015673 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/01/2017 19:13* | WG1015673 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/01/2017 19:13* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/01/2017 19:13* | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 10.0 | 50.0 | 1 | 08/30/2017 23:48 | WG1015444 |
| Acrolein | 18.5 | J J4 | 8.87 | 50.0 | 1 | 08/30/2017 23:48 | WG1015444 |
| Acrylonitrile | U | | 1.87 | 10.0 | 1 | 08/30/2017 23:48 | WG1015444 |
| Benzene | U | | 0.331 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Bromobenzene | U | | 0.352 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Bromodichloromethane | U | | 0.380 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Bromoform | U | | 0.469 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Bromomethane | U | | 0.866 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| n-Butylbenzene | U | | 0.361 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| sec-Butylbenzene | U | | 0.365 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| tert-Butylbenzene | U | | 0.399 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Carbon tetrachloride | U | | 0.379 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Chlorobenzene | U | | 0.348 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Chlorodibromomethane | U | | 0.327 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Chloroethane | U | | 0.453 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Chloroform | U | | 0.324 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Chloromethane | U | | 0.276 | 2.50 | 1 | 08/30/2017 23:48 | WG1015444 |
| 2-Chlorotoluene | U | | 0.375 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 4-Chlorotoluene | U | | 0.351 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.33 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Dibromomethane | U | | 0.346 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2-Dichlorobenzene | U | | 0.349 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,3-Dichlorobenzene | U | | 0.220 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,4-Dichlorobenzene | U | | 0.274 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Dichlorodifluoromethane | U | | 0.551 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1-Dichloroethane | U | | 0.259 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1-Dichloroethene | U | | 0.398 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| cis-1,2-Dichloroethene | U | | 0.260 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| trans-1,2-Dichloroethene | U | | 0.396 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2-Dichloropropane | U | | 0.306 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1-Dichloropropene | U | | 0.352 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,3-Dichloropropane | U | | 0.366 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| cis-1,3-Dichloropropene | U | | 0.418 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| trans-1,3-Dichloropropene | U | | 0.419 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 2,2-Dichloropropane | U | | 0.321 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Di-isopropyl ether | U | | 0.320 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Ethylbenzene | U | | 0.384 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Hexachloro-1,3-butadiene | U | | 0.256 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Isopropylbenzene | U | | 0.326 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| p-Isopropyltoluene | U | | 0.350 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 2-Butanone (MEK) | U | | 3.93 | 10.0 | 1 | 08/30/2017 23:48 | WG1015444 |
| Methylene Chloride | U | | 1.00 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 4-Methyl-2-pentanone (MIBK) | U | | 2.14 | 10.0 | 1 | 08/30/2017 23:48 | WG1015444 |
| Methyl tert-butyl ether | U | | 0.367 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| n-Propylbenzene | U | | 0.349 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Styrene | U | | 0.307 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1,1,2-Tetrachloroethane | U | | 0.385 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.303 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Tetrachloroethene | U | | 0.372 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Toluene | U | | 0.412 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,1-Trichloroethane | U | | 0.319 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1,2-Trichloroethane | U | | 0.383 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Trichloroethene | U | | 0.398 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Trichlorofluoromethane | U | | 1.20 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2,3-Trichloropropane | U | | 0.807 | 2.50 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2,4-Trimethylbenzene | U | | 0.373 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2,3-Trimethylbenzene | U | | 0.321 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,3,5-Trimethylbenzene | U | | 0.387 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Vinyl chloride | U | | 0.259 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Xylenes, Total | U | | 1.06 | 3.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| *(S) Toluene-d8* | *114* | | | *80.0-120* | | *08/30/2017 23:48* | WG1015444 |
| *(S) Dibromofluoromethane* | *85.2* | | | *76.0-123* | | *08/30/2017 23:48* | WG1015444 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *80.0-120* | | *08/30/2017 23:48* | WG1015444 |

## Method Blank (MB)

(MB) R3247003-1 09/05/17 09:01

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.000200 | | | |

## L932601-05 Original Sample (OS) • Duplicate (DUP)

(OS) L932601-05 09/05/17 09:01 • (DUP) R3247003-3 09/05/17 09:01

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 90.1 | 89.3 | 1 | 0.849 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3247003-2 09/05/17 09:01

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3247002-1 09/05/17 08:49

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000400 | | | |

## L932611-06 Original Sample (OS) • Duplicate (DUP)

(OS) L932611-06 09/05/17 08:49 • (DUP) R3247002-3 09/05/17 08:49

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 91.6 | 92.2 | 1 | 0.731 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3247002-2 09/05/17 08:49

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3246569-3 08/31/17 11:10

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 0.0427 | J | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.9* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246569-1 08/31/17 09:59 • (LCSD) R3246569-2 08/31/17 10:22

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | 4.68 | 5.27 | 85.1 | 95.8 | 70.0-133 | | | 11.8 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *106* | *108* | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3246610-3 08/30/17 23:10

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 10.0 | 50.0 |
| Acrolein | U | | 8.87 | 50.0 |
| Acrylonitrile | U | | 1.87 | 10.0 |
| Benzene | U | | 0.331 | 1.00 |
| Bromobenzene | U | | 0.352 | 1.00 |
| Bromodichloromethane | U | | 0.380 | 1.00 |
| Bromoform | U | | 0.469 | 1.00 |
| Bromomethane | U | | 0.866 | 5.00 |
| n-Butylbenzene | U | | 0.361 | 1.00 |
| sec-Butylbenzene | U | | 0.365 | 1.00 |
| tert-Butylbenzene | U | | 0.399 | 1.00 |
| Carbon tetrachloride | U | | 0.379 | 1.00 |
| Chlorobenzene | U | | 0.348 | 1.00 |
| Chlorodibromomethane | U | | 0.327 | 1.00 |
| Chloroethane | U | | 0.453 | 5.00 |
| Chloroform | U | | 0.324 | 5.00 |
| Chloromethane | U | | 0.276 | 2.50 |
| 2-Chlorotoluene | U | | 0.375 | 1.00 |
| 4-Chlorotoluene | U | | 0.351 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.33 | 5.00 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 |
| Dibromomethane | U | | 0.346 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.349 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.220 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.274 | 1.00 |
| Dichlorodifluoromethane | U | | 0.551 | 5.00 |
| 1,1-Dichloroethane | U | | 0.259 | 1.00 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 |
| 1,1-Dichloroethene | U | | 0.398 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.260 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.396 | 1.00 |
| 1,2-Dichloropropane | U | | 0.306 | 1.00 |
| 1,1-Dichloropropene | U | | 0.352 | 1.00 |
| 1,3-Dichloropropane | U | | 0.366 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.418 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.419 | 1.00 |
| 2,2-Dichloropropane | U | | 0.321 | 1.00 |
| Di-isopropyl ether | U | | 0.320 | 1.00 |
| Ethylbenzene | U | | 0.384 | 1.00 |
| Hexachloro-1,3-butadiene | U | | 0.256 | 1.00 |

## Method Blank (MB)

(MB) R3246610-3 08/30/17 23:10

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.326 | 1.00 |
| p-Isopropyltoluene | U | | 0.350 | 1.00 |
| 2-Butanone (MEK) | U | | 3.93 | 10.0 |
| Methylene Chloride | U | | 1.00 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 2.14 | 10.0 |
| Methyl tert-butyl ether | U | | 0.367 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| n-Propylbenzene | U | | 0.349 | 1.00 |
| Styrene | U | | 0.307 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.385 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.303 | 1.00 |
| Tetrachloroethene | U | | 0.372 | 1.00 |
| Toluene | U | | 0.412 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.319 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.383 | 1.00 |
| Trichloroethene | U | | 0.398 | 1.00 |
| Trichlorofluoromethane | U | | 1.20 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.807 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.373 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.321 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.387 | 1.00 |
| Vinyl chloride | U | | 0.259 | 1.00 |
| Xylenes, Total | U | | 1.06 | 3.00 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *97.5* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246610-1 08/30/17 22:12 • (LCSD) R3246610-2 08/30/17 22:31

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 126 | 105 | 101 | 83.6 | 10.0-160 | | | 18.6 | 23 |
| Acrylonitrile | 125 | 144 | 141 | 115 | 113 | 60.0-142 | | | 2.07 | 20 |
| Benzene | 25.0 | 26.0 | 26.0 | 104 | 104 | 69.0-123 | | | 0.0800 | 20 |
| Bromobenzene | 25.0 | 24.6 | 24.8 | 98.4 | 99.1 | 79.0-120 | | | 0.710 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246610-1 08/30/17 22:12 • (LCSD) R3246610-2 08/30/17 22:31

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | 25.0 | 27.0 | 26.7 | 108 | 107 | 76.0-120 | | | 1.34 | 20 |
| Bromoform | 25.0 | 25.4 | 26.1 | 102 | 104 | 67.0-132 | | | 2.54 | 20 |
| Bromomethane | 25.0 | 26.1 | 25.1 | 105 | 100 | 18.0-160 | | | 4.01 | 20 |
| n-Butylbenzene | 25.0 | 24.3 | 24.0 | 97.0 | 96.1 | 72.0-126 | | | 0.950 | 20 |
| sec-Butylbenzene | 25.0 | 25.2 | 24.6 | 101 | 98.2 | 74.0-121 | | | 2.37 | 20 |
| tert-Butylbenzene | 25.0 | 25.9 | 24.8 | 103 | 99.2 | 75.0-122 | | | 4.17 | 20 |
| Carbon tetrachloride | 25.0 | 24.5 | 24.7 | 97.8 | 98.9 | 63.0-122 | | | 1.09 | 20 |
| Chlorobenzene | 25.0 | 26.3 | 25.7 | 105 | 103 | 79.0-121 | | | 2.09 | 20 |
| Chlorodibromomethane | 25.0 | 26.6 | 25.5 | 106 | 102 | 75.0-125 | | | 4.04 | 20 |
| Chloroethane | 25.0 | 27.5 | 26.2 | 110 | 105 | 47.0-152 | | | 5.12 | 20 |
| Chloroform | 25.0 | 26.4 | 26.3 | 106 | 105 | 72.0-121 | | | 0.600 | 20 |
| Chloromethane | 25.0 | 29.0 | 26.6 | 116 | 106 | 48.0-139 | | | 8.42 | 20 |
| 2-Chlorotoluene | 25.0 | 26.0 | 25.6 | 104 | 102 | 74.0-122 | | | 1.60 | 20 |
| 4-Chlorotoluene | 25.0 | 25.6 | 25.9 | 102 | 104 | 79.0-120 | | | 1.27 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 26.2 | 24.4 | 105 | 97.5 | 64.0-127 | | | 7.17 | 20 |
| 1,2-Dibromoethane | 25.0 | 25.0 | 24.9 | 100 | 99.6 | 77.0-123 | | | 0.500 | 20 |
| Dibromomethane | 25.0 | 28.0 | 28.0 | 112 | 112 | 78.0-120 | | | 0.0700 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 26.7 | 26.1 | 107 | 105 | 80.0-120 | | | 2.23 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 25.9 | 25.7 | 104 | 103 | 72.0-123 | | | 0.780 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 25.9 | 25.5 | 103 | 102 | 77.0-120 | | | 1.59 | 20 |
| Dichlorodifluoromethane | 25.0 | 26.9 | 27.3 | 108 | 109 | 49.0-155 | | | 1.44 | 20 |
| 1,1-Dichloroethane | 25.0 | 27.4 | 27.3 | 110 | 109 | 70.0-126 | | | 0.330 | 20 |
| 1,2-Dichloroethane | 25.0 | 26.8 | 26.8 | 107 | 107 | 67.0-126 | | | 0.0700 | 20 |
| 1,1-Dichloroethene | 25.0 | 27.2 | 26.6 | 109 | 106 | 64.0-129 | | | 2.20 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 26.9 | 26.9 | 108 | 108 | 73.0-120 | | | 0.150 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 26.6 | 26.4 | 107 | 106 | 71.0-121 | | | 0.830 | 20 |
| 1,2-Dichloropropane | 25.0 | 28.0 | 27.6 | 112 | 110 | 75.0-125 | | | 1.62 | 20 |
| 1,1-Dichloropropene | 25.0 | 26.9 | 26.7 | 108 | 107 | 71.0-129 | | | 0.730 | 20 |
| 1,3-Dichloropropane | 25.0 | 26.0 | 25.4 | 104 | 101 | 80.0-121 | | | 2.56 | 20 |
| Acrolein | 125 | 303 | 307 | 243 | 245 | 10.0-160 | J4 | J4 | 1.11 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 28.5 | 28.0 | 114 | 112 | 79.0-123 | | | 1.66 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 26.3 | 26.3 | 105 | 105 | 74.0-127 | | | 0.190 | 20 |
| 2,2-Dichloropropane | 25.0 | 27.7 | 25.9 | 111 | 103 | 60.0-125 | | | 6.65 | 20 |
| Di-isopropyl ether | 25.0 | 27.4 | 26.7 | 110 | 107 | 59.0-133 | | | 2.84 | 20 |
| Ethylbenzene | 25.0 | 25.4 | 25.0 | 101 | 99.9 | 77.0-120 | | | 1.53 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 22.2 | 23.2 | 88.7 | 92.6 | 64.0-131 | | | 4.30 | 20 |
| Isopropylbenzene | 25.0 | 25.3 | 25.0 | 101 | 100 | 75.0-120 | | | 1.10 | 20 |
| p-Isopropyltoluene | 25.0 | 25.9 | 25.3 | 104 | 101 | 74.0-126 | | | 2.51 | 20 |
| 2-Butanone (MEK) | 125 | 125 | 118 | 100 | 94.1 | 37.0-158 | | | 6.22 | 20 |
| Methylene Chloride | 25.0 | 26.3 | 26.2 | 105 | 105 | 66.0-121 | | | 0.390 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246610-1 08/30/17 22:12 • (LCSD) R3246610-2 08/30/17 22:31

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 125 | 137 | 128 | 109 | 103 | 59.0-143 | | | 6.22 | 20 |
| Methyl tert-butyl ether | 25.0 | 26.9 | 26.1 | 107 | 104 | 64.0-123 | | | 2.96 | 20 |
| Naphthalene | 25.0 | 23.4 | 22.6 | 93.7 | 90.3 | 62.0-128 | | | 3.65 | 20 |
| n-Propylbenzene | 25.0 | 25.4 | 25.6 | 102 | 102 | 79.0-120 | | | 0.700 | 20 |
| Styrene | 25.0 | 26.7 | 26.7 | 107 | 107 | 78.0-124 | | | 0.330 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 27.3 | 25.9 | 109 | 104 | 75.0-122 | | | 5.33 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 24.8 | 24.2 | 99.0 | 96.6 | 71.0-122 | | | 2.47 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 25.4 | 25.8 | 102 | 103 | 61.0-136 | | | 1.63 | 20 |
| Tetrachloroethene | 25.0 | 25.1 | 24.4 | 100 | 97.6 | 70.0-127 | | | 2.75 | 20 |
| Toluene | 25.0 | 24.6 | 24.2 | 98.3 | 96.7 | 77.0-120 | | | 1.61 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 24.1 | 24.8 | 96.6 | 99.4 | 61.0-133 | | | 2.85 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 25.9 | 25.2 | 103 | 101 | 69.0-129 | | | 2.41 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 26.7 | 26.0 | 107 | 104 | 68.0-122 | | | 2.70 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 25.5 | 25.1 | 102 | 100 | 78.0-120 | | | 1.52 | 20 |
| Trichloroethene | 25.0 | 26.7 | 26.5 | 107 | 106 | 78.0-120 | | | 0.960 | 20 |
| Trichlorofluoromethane | 25.0 | 26.9 | 26.4 | 107 | 106 | 56.0-137 | | | 1.71 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 25.7 | 25.2 | 103 | 101 | 72.0-124 | | | 1.74 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 26.5 | 25.3 | 106 | 101 | 75.0-120 | | | 4.64 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 25.7 | 24.7 | 103 | 98.9 | 75.0-120 | | | 3.71 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 25.4 | 24.7 | 102 | 98.7 | 75.0-120 | | | 2.79 | 20 |
| Vinyl chloride | 25.0 | 25.8 | 25.8 | 103 | 103 | 64.0-133 | | | 0.0100 | 20 |
| Xylenes, Total | 75.0 | 78.6 | 76.1 | 105 | 101 | 77.0-120 | | | 3.23 | 20 |
| *(S) Toluene-d8* | | | | *103* | *102* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *103* | *104* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *94.7* | *96.9* | *80.0-120* | | | | |

## Method Blank (MB)

(MB) R3246630-3 09/01/17 14:11

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3246630-3 09/01/17 14:11

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *95.8* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *98.6* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246630-1 09/01/17 13:12 • (LCSD) R3246630-2 09/01/17 13:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.166 | 0.157 | 133 | 126 | 11.0-160 | | | 5.28 | 23 |
| Acrylonitrile | 0.125 | 0.110 | 0.101 | 88.1 | 80.6 | 61.0-143 | | | 8.90 | 20 |
| Benzene | 0.0250 | 0.0231 | 0.0226 | 92.6 | 90.2 | 71.0-124 | | | 2.56 | 20 |
| Bromobenzene | 0.0250 | 0.0215 | 0.0211 | 86.2 | 84.6 | 78.0-120 | | | 1.89 | 20 |
| Bromodichloromethane | 0.0250 | 0.0240 | 0.0230 | 96.0 | 92.2 | 75.0-120 | | | 4.03 | 20 |
| Bromochloromethane | 0.0250 | 0.0254 | 0.0248 | 102 | 99.0 | 80.0-121 | | | 2.56 | 20 |
| Bromoform | 0.0250 | 0.0244 | 0.0247 | 97.6 | 98.7 | 65.0-133 | | | 1.13 | 20 |
| Bromomethane | 0.0250 | 0.0252 | 0.0247 | 101 | 98.7 | 26.0-160 | | | 2.20 | 20 |
| n-Butylbenzene | 0.0250 | 0.0249 | 0.0241 | 99.6 | 96.4 | 73.0-126 | | | 3.22 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0253 | 0.0250 | 101 | 100 | 75.0-121 | | | 1.24 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0255 | 0.0256 | 102 | 102 | 74.0-122 | | | 0.500 | 20 |
| Carbon disulfide | 0.0250 | 0.0178 | 0.0227 | 71.4 | 90.8 | 53.0-130 | | J3 | 23.9 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0234 | 0.0236 | 93.7 | 94.2 | 66.0-123 | | | 0.560 | 20 |
| Chlorobenzene | 0.0250 | 0.0275 | 0.0284 | 110 | 114 | 79.0-121 | | | 3.29 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0281 | 0.0275 | 113 | 110 | 74.0-128 | | | 2.28 | 20 |
| Chloroethane | 0.0250 | 0.0213 | 0.0199 | 85.3 | 79.6 | 51.0-147 | | | 6.84 | 20 |
| Chloroform | 0.0250 | 0.0229 | 0.0227 | 91.5 | 90.9 | 73.0-123 | | | 0.660 | 20 |
| Chloromethane | 0.0250 | 0.0198 | 0.0190 | 79.1 | 76.0 | 51.0-138 | | | 3.97 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0238 | 0.0236 | 95.0 | 94.5 | 72.0-124 | | | 0.550 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0236 | 0.0231 | 94.5 | 92.5 | 78.0-120 | | | 2.14 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0245 | 0.0237 | 97.9 | 95.0 | 65.0-126 | | | 2.98 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0280 | 0.0278 | 112 | 111 | 78.0-122 | | | 0.460 | 20 |
| Dibromomethane | 0.0250 | 0.0258 | 0.0245 | 103 | 97.8 | 79.0-120 | | | 5.41 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0257 | 0.0258 | 103 | 103 | 80.0-120 | | | 0.380 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0263 | 0.0259 | 105 | 104 | 72.0-123 | | | 1.55 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0251 | 0.0256 | 100 | 102 | 77.0-120 | | | 1.77 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0167 | 0.0169 | 66.8 | 67.7 | 68.0-126 | J4 | J4 | 1.29 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0236 | 0.0220 | 94.6 | 87.9 | 49.0-155 | | | 7.30 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0216 | 0.0211 | 86.3 | 84.3 | 70.0-128 | | | 2.42 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0222 | 0.0215 | 88.9 | 86.1 | 69.0-128 | | | 3.19 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0239 | 0.0237 | 95.7 | 94.9 | 63.0-131 | | | 0.800 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0233 | 0.0232 | 93.3 | 92.6 | 74.0-123 | | | 0.720 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0248 | 0.0232 | 99.3 | 92.6 | 72.0-122 | | | 6.92 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0226 | 0.0227 | 90.4 | 90.9 | 75.0-126 | | | 0.560 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0222 | 0.0223 | 88.9 | 89.1 | 72.0-130 | | | 0.240 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0254 | 0.0256 | 102 | 102 | 80.0-121 | | | 0.830 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0241 | 0.0244 | 96.4 | 97.6 | 80.0-125 | | | 1.19 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0248 | 0.0258 | 99.0 | 103 | 75.0-129 | | | 4.00 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0207 | 0.0216 | 82.7 | 86.2 | 60.0-129 | | | 4.20 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0195 | 0.0190 | 78.0 | 76.0 | 62.0-133 | | | 2.49 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246630-1 09/01/17 13:12 • (LCSD) R3246630-2 09/01/17 13:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0267 | 0.0277 | 107 | 111 | 77.0-120 | | | 3.58 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0260 | 0.0262 | 104 | 105 | 68.0-128 | | | 1.00 | 20 |
| 2-Hexanone | 0.125 | 0.128 | 0.128 | 103 | 102 | 61.0-143 | | | 0.650 | 20 |
| n-Hexane | 0.0250 | 0.0200 | 0.0194 | 79.9 | 77.4 | 57.0-125 | | | 3.19 | 20 |
| Iodomethane | 0.125 | 0.115 | 0.117 | 92.2 | 93.7 | 67.0-132 | | | 1.67 | 20 |
| Isopropylbenzene | 0.0250 | 0.0250 | 0.0244 | 100 | 97.7 | 75.0-120 | | | 2.52 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0254 | 0.0251 | 101 | 100 | 74.0-125 | | | 1.20 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.135 | 0.126 | 108 | 100 | 37.0-159 | | | 7.26 | 20 |
| Methylene Chloride | 0.0250 | 0.0220 | 0.0218 | 88.1 | 87.1 | 67.0-123 | | | 1.12 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.119 | 0.117 | 95.1 | 94.0 | 60.0-144 | | | 1.13 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0223 | 0.0219 | 89.2 | 87.6 | 66.0-125 | | | 1.77 | 20 |
| Naphthalene | 0.0250 | 0.0252 | 0.0252 | 101 | 101 | 64.0-125 | | | 0.0900 | 20 |
| n-Propylbenzene | 0.0250 | 0.0242 | 0.0237 | 96.7 | 94.9 | 78.0-120 | | | 1.85 | 20 |
| Styrene | 0.0250 | 0.0258 | 0.0250 | 103 | 99.8 | 78.0-124 | | | 3.22 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0278 | 0.0280 | 111 | 112 | 74.0-124 | | | 0.790 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0242 | 0.0233 | 96.7 | 93.2 | 73.0-120 | | | 3.67 | 20 |
| Tetrachloroethene | 0.0250 | 0.0302 | 0.0310 | 121 | 124 | 70.0-127 | | | 2.54 | 20 |
| Toluene | 0.0250 | 0.0268 | 0.0267 | 107 | 107 | 77.0-120 | | | 0.100 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0206 | 0.0255 | 82.2 | 102 | 64.0-135 | | J3 | 21.6 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0243 | 0.0240 | 97.2 | 95.9 | 68.0-126 | | | 1.35 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0242 | 0.0238 | 96.7 | 95.4 | 70.0-127 | | | 1.34 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0237 | 0.0238 | 94.8 | 95.4 | 69.0-125 | | | 0.630 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0268 | 0.0277 | 107 | 111 | 78.0-120 | | | 3.46 | 20 |
| Trichloroethene | 0.0250 | 0.0264 | 0.0257 | 106 | 103 | 79.0-120 | | | 2.57 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0257 | 0.0254 | 103 | 102 | 59.0-136 | | | 1.31 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0262 | 0.0259 | 105 | 104 | 73.0-124 | | | 1.28 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0224 | 0.0223 | 89.7 | 89.1 | 76.0-120 | | | 0.620 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0232 | 0.0232 | 92.9 | 92.8 | 75.0-120 | | | 0.150 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0247 | 0.0243 | 99.0 | 97.3 | 75.0-120 | | | 1.71 | 20 |
| Vinyl acetate | 0.125 | 0.0938 | 0.0987 | 75.0 | 78.9 | 58.0-156 | | | 5.11 | 20 |
| Vinyl chloride | 0.0250 | 0.0221 | 0.0220 | 88.6 | 87.8 | 63.0-134 | | | 0.840 | 20 |
| Xylenes, Total | 0.0750 | 0.0817 | 0.0825 | 109 | 110 | 77.0-120 | | | 0.970 | 20 |
| *(S) Toluene-d8* | | | | *105* | *108* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *92.5* | *93.4* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *91.2* | *90.6* | *64.0-132* | | | | |

## L932747-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932747-01 09/01/17 19:52 • (MS) R3246630-4 09/01/17 21:51 • (MSD) R3246630-5 09/01/17 22:11

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | U | 1.76 | 1.71 | 56.4 | 54.7 | 25 | 10.0-160 | | | 2.95 | 36 |
| Acrylonitrile | 0.125 | U | 2.42 | 2.20 | 77.6 | 70.3 | 25 | 14.0-160 | | | 9.85 | 33 |
| Benzene | 0.0250 | U | 0.467 | 0.444 | 74.8 | 71.1 | 25 | 13.0-146 | | | 5.11 | 27 |
| Bromobenzene | 0.0250 | U | 0.498 | 0.503 | 79.6 | 80.5 | 25 | 10.0-149 | | | 1.11 | 33 |
| Bromodichloromethane | 0.0250 | U | 0.552 | 0.518 | 88.4 | 82.9 | 25 | 15.0-142 | | | 6.32 | 28 |
| Bromochloromethane | 0.0250 | U | 0.524 | 0.514 | 83.9 | 82.2 | 25 | 24.0-146 | | | 2.01 | 27 |
| Bromoform | 0.0250 | U | 0.498 | 0.495 | 79.7 | 79.2 | 25 | 10.0-147 | | | 0.630 | 31 |
| Bromomethane | 0.0250 | U | 0.220 | 0.197 | 35.2 | 31.5 | 25 | 10.0-160 | | | 11.3 | 32 |
| n-Butylbenzene | 0.0250 | U | 0.577 | 0.552 | 92.3 | 88.4 | 25 | 10.0-154 | | | 4.34 | 37 |
| sec-Butylbenzene | 0.0250 | U | 0.584 | 0.575 | 93.5 | 92.0 | 25 | 10.0-151 | | | 1.64 | 36 |
| tert-Butylbenzene | 0.0250 | U | 0.607 | 0.602 | 97.1 | 96.3 | 25 | 10.0-152 | | | 0.840 | 35 |
| Carbon disulfide | 0.0250 | U | 0.195 | 0.120 | 31.1 | 19.2 | 25 | 10.0-141 | | J3 | 47.6 | 30 |
| Carbon tetrachloride | 0.0250 | U | 0.444 | 0.441 | 71.1 | 70.5 | 25 | 13.0-140 | | | 0.810 | 30 |
| Chlorobenzene | 0.0250 | U | 0.632 | 0.614 | 101 | 98.3 | 25 | 10.0-149 | | | 2.81 | 31 |
| Chlorodibromomethane | 0.0250 | U | 0.628 | 0.616 | 100 | 98.5 | 25 | 12.0-147 | | | 1.95 | 29 |
| Chloroethane | 0.0250 | U | 0.0768 | 0.116 | 12.3 | 18.5 | 25 | 10.0-159 | | J3 | 40.3 | 33 |
| Chloroform | 0.0250 | U | 0.535 | 0.513 | 85.6 | 82.1 | 25 | 18.0-148 | | | 4.19 | 28 |
| Chloromethane | 0.0250 | U | 0.212 | 0.218 | 33.9 | 34.8 | 25 | 10.0-146 | | | 2.64 | 29 |
| 2-Chlorotoluene | 0.0250 | U | 0.557 | 0.554 | 89.1 | 88.7 | 25 | 10.0-151 | | | 0.540 | 35 |
| 4-Chlorotoluene | 0.0250 | U | 0.555 | 0.556 | 88.9 | 88.9 | 25 | 10.0-150 | | | 0.0700 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | U | 0.526 | 0.513 | 84.2 | 82.1 | 25 | 10.0-149 | | | 2.53 | 34 |
| 1,2-Dibromoethane | 0.0250 | U | 0.624 | 0.601 | 99.8 | 96.2 | 25 | 14.0-145 | | | 3.66 | 28 |
| Dibromomethane | 0.0250 | U | 0.559 | 0.530 | 89.5 | 84.8 | 25 | 18.0-144 | | | 5.43 | 27 |
| 1,2-Dichlorobenzene | 0.0250 | U | 0.622 | 0.606 | 99.4 | 96.9 | 25 | 10.0-153 | | | 2.59 | 34 |
| 1,3-Dichlorobenzene | 0.0250 | U | 0.611 | 0.583 | 97.7 | 93.2 | 25 | 10.0-150 | | | 4.68 | 35 |
| 1,4-Dichlorobenzene | 0.0250 | U | 0.591 | 0.573 | 94.6 | 91.6 | 25 | 10.0-148 | | | 3.18 | 34 |
| trans-1,4-Dichloro-2-butene | 0.0250 | U | 0.397 | 0.398 | 63.5 | 63.7 | 25 | 10.0-160 | | | 0.300 | 40 |
| Dichlorodifluoromethane | 0.0250 | U | 0.313 | 0.310 | 50.1 | 49.6 | 25 | 10.0-160 | | | 1.18 | 30 |
| 1,1-Dichloroethane | 0.0250 | U | 0.482 | 0.461 | 77.1 | 73.7 | 25 | 19.0-148 | | | 4.54 | 28 |
| 1,2-Dichloroethane | 0.0250 | U | 0.515 | 0.491 | 82.4 | 78.6 | 25 | 17.0-147 | | | 4.71 | 27 |
| 1,1-Dichloroethene | 0.0250 | U | 0.531 | 0.220 | 84.9 | 35.2 | 25 | 10.0-150 | | J3 | 82.8 | 31 |
| cis-1,2-Dichloroethene | 0.0250 | U | 0.515 | 0.492 | 82.5 | 78.7 | 25 | 16.0-145 | | | 4.67 | 28 |
| trans-1,2-Dichloroethene | 0.0250 | U | 0.410 | 0.409 | 65.7 | 65.4 | 25 | 11.0-142 | | | 0.370 | 29 |
| 1,2-Dichloropropane | 0.0250 | U | 0.519 | 0.492 | 83.0 | 78.7 | 25 | 17.0-148 | | | 5.44 | 28 |
| 1,1-Dichloropropene | 0.0250 | U | 0.423 | 0.399 | 67.8 | 63.8 | 25 | 10.0-150 | | | 5.97 | 30 |
| 1,3-Dichloropropane | 0.0250 | U | 0.611 | 0.592 | 97.7 | 94.8 | 25 | 16.0-148 | | | 3.06 | 27 |
| cis-1,3-Dichloropropene | 0.0250 | U | 0.548 | 0.526 | 87.7 | 84.2 | 25 | 13.0-150 | | | 4.13 | 28 |
| trans-1,3-Dichloropropene | 0.0250 | U | 0.585 | 0.568 | 93.6 | 90.9 | 25 | 10.0-152 | | | 2.90 | 29 |
| 2,2-Dichloropropane | 0.0250 | U | 0.417 | 0.400 | 66.7 | 64.1 | 25 | 16.0-143 | | | 4.06 | 30 |
| Di-isopropyl ether | 0.0250 | U | 0.471 | 0.465 | 75.4 | 74.4 | 25 | 16.0-149 | | | 1.37 | 28 |

## L932747-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932747-01 09/01/17 19:52 • (MS) R3246630-4 09/01/17 21:51 • (MSD) R3246630-5 09/01/17 22:11

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | U | 0.587 | 0.582 | 93.9 | 93.2 | 25 | 10.0-147 | | | 0.820 | 31 |
| Hexachloro-1,3-butadiene | 0.0250 | U | 0.629 | 0.599 | 101 | 95.9 | 25 | 10.0-154 | | | 4.90 | 40 |
| 2-Hexanone | 0.125 | U | 2.75 | 2.66 | 87.9 | 85.1 | 25 | 12.0-158 | | | 3.28 | 30 |
| n-Hexane | 0.0250 | U | 0.235 | 0.227 | 37.7 | 36.3 | 25 | 10.0-140 | | | 3.68 | 34 |
| Iodomethane | 0.125 | U | 2.38 | 1.57 | 76.2 | 50.4 | 25 | 10.0-157 | | J3 | 40.8 | 34 |
| Isopropylbenzene | 0.0250 | U | 0.555 | 0.553 | 88.8 | 88.5 | 25 | 10.0-147 | | | 0.340 | 33 |
| p-Isopropyltoluene | 0.0250 | U | 0.584 | 0.570 | 93.4 | 91.3 | 25 | 10.0-156 | | | 2.34 | 37 |
| 2-Butanone (MEK) | 0.125 | U | 2.27 | 2.10 | 72.8 | 67.1 | 25 | 10.0-160 | | | 8.04 | 33 |
| Methylene Chloride | 0.0250 | U | 0.457 | 0.453 | 73.1 | 72.4 | 25 | 16.0-139 | | | 0.900 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | U | 2.71 | 2.62 | 86.6 | 83.9 | 25 | 12.0-160 | | | 3.21 | 32 |
| Methyl tert-butyl ether | 0.0250 | U | 0.551 | 0.533 | 88.2 | 85.2 | 25 | 21.0-145 | | | 3.39 | 29 |
| Naphthalene | 0.0250 | U | 0.595 | 0.589 | 95.2 | 94.3 | 25 | 10.0-153 | | | 0.970 | 36 |
| n-Propylbenzene | 0.0250 | U | 0.532 | 0.545 | 85.1 | 87.2 | 25 | 10.0-151 | | | 2.46 | 34 |
| Styrene | 0.0250 | U | 0.589 | 0.565 | 94.2 | 90.5 | 25 | 10.0-155 | | | 4.02 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | U | 0.676 | 0.635 | 108 | 102 | 25 | 10.0-147 | | | 6.15 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | U | 0.490 | 0.494 | 78.5 | 79.0 | 25 | 10.0-155 | | | 0.700 | 31 |
| Tetrachloroethene | 0.0250 | U | 0.581 | 0.579 | 93.0 | 92.6 | 25 | 10.0-144 | | | 0.400 | 32 |
| Toluene | 0.0250 | U | 0.556 | 0.547 | 88.9 | 87.6 | 25 | 10.0-144 | | | 1.50 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | U | 0.682 | 0.295 | 109 | 47.3 | 25 | 10.0-153 | | J3 | 79.1 | 33 |
| 1,2,3-Trichlorobenzene | 0.0250 | U | 0.628 | 0.594 | 100 | 95.0 | 25 | 10.0-153 | | | 5.52 | 40 |
| 1,2,4-Trichlorobenzene | 0.0250 | U | 0.616 | 0.592 | 98.6 | 94.7 | 25 | 10.0-156 | | | 4.06 | 40 |
| 1,1,1-Trichloroethane | 0.0250 | U | 0.492 | 0.469 | 78.8 | 75.1 | 25 | 18.0-145 | | | 4.84 | 29 |
| 1,1,2-Trichloroethane | 0.0250 | U | 0.642 | 0.639 | 103 | 102 | 25 | 12.0-151 | | | 0.470 | 28 |
| Trichloroethene | 0.0250 | U | 0.578 | 0.549 | 92.5 | 87.9 | 25 | 11.0-148 | | | 5.16 | 29 |
| Trichlorofluoromethane | 0.0250 | U | 0.0544 | 0.179 | 8.70 | 28.6 | 25 | 10.0-157 | J6 | J3 | 107 | 34 |
| 1,2,3-Trichloropropane | 0.0250 | U | 0.604 | 0.594 | 96.7 | 95.1 | 25 | 10.0-154 | | | 1.67 | 32 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.00877 | 0.586 | 0.557 | 92.4 | 87.8 | 25 | 10.0-150 | | | 5.05 | 33 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0131 | 0.564 | 0.553 | 88.1 | 86.4 | 25 | 10.0-151 | | | 1.87 | 34 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.00731 | 0.563 | 0.565 | 88.8 | 89.3 | 25 | 10.0-150 | | | 0.530 | 33 |
| Vinyl acetate | 0.125 | U | 0.190 | 0.227 | 6.09 | 7.26 | 25 | 10.0-160 | J6 | J6 | 17.5 | 40 |
| Vinyl chloride | 0.0250 | U | 0.246 | 0.246 | 39.3 | 39.4 | 25 | 10.0-150 | | | 0.0100 | 29 |
| Xylenes, Total | 0.0750 | U | 1.83 | 1.74 | 97.4 | 92.6 | 25 | 10.0-150 | | | 5.05 | 31 |
| *(S) Toluene-d8* | | | | | *107* | *108* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *92.6* | *91.6* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *88.7* | *91.4* | | *64.0-132* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

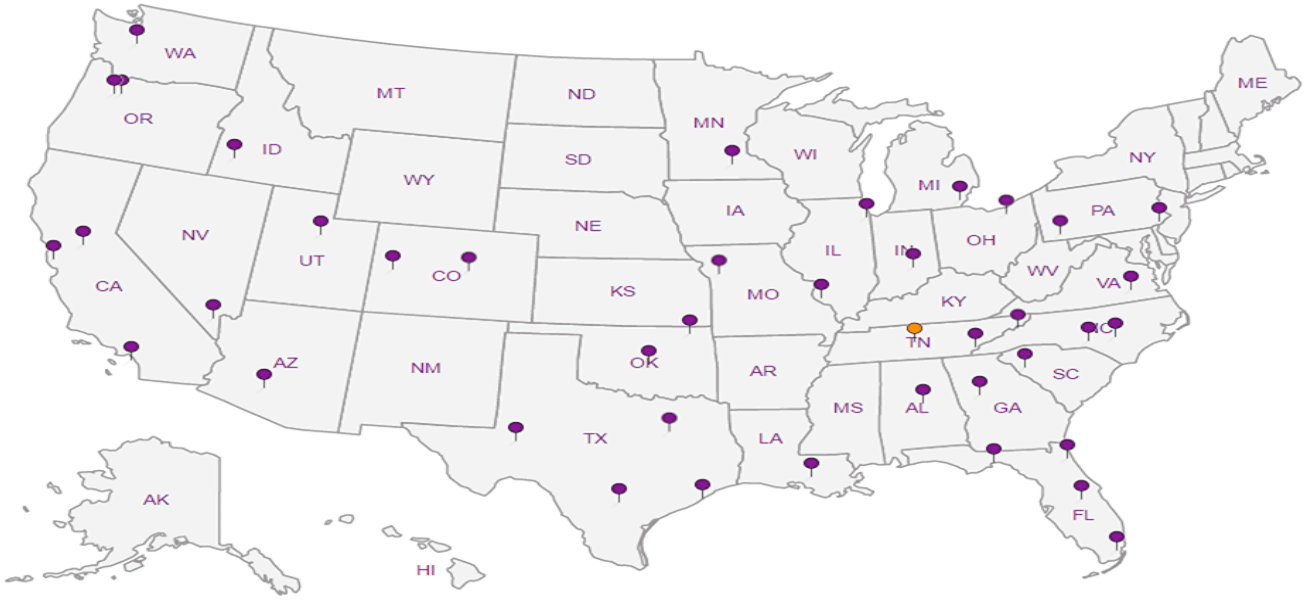
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: ~~206-529-3980~~
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON McKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody Page 1 of 1

ESC LAB SCIENCES a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 932611

H181

Acctnum: PESENVSWA
Template: T126584
Prelogin: P613271
TSR: 110 - Brian Ford
PB:

Shipped Via: FedEx Ground

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | Pres Chk | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-207-90 | GRAB | ~~SS~~ GW | 90 | 8/25/17 | 1650 | ~~5~~ 5 | | X | ~~5~~ | X | X | ~~5~~ | | 01 |
| B-219-42 | | ~~SS~~ SS | 42 | 8/28/17 | 1320 | ~~8~~ 4 | | ~~8~~ | | X | X | | | 02 |
| B-219-50 | | SS | 50 | | 1355 | 4 | | | | X | X | | | 03 |
| B-219-60 | | SS | 60 | | 1415 | 4 | | | | X | X | | | 04 |
| ~~B~~ MW-136-13 | | SS | 13 | | 1420 | 4 | | | | X | X | | HOLD | |
| ~~B~~ MW-136-35 | | SS | 35 | | 1500 | 4 | | | | X | X | | | 05 |
| B-902-15 | | SS | 15 | | 1200 | 4 | | | | X | X | | | 06 |
| ~~B~~ MW-136-44 | | ~~SS~~ GW | 44 | | 1550 | ~~4~~ 8 | | | ~~X~~ | | | ~~5~~ 5 | | 07 |
| B-219-70 | ↓ | ~~SS~~ GW | 70 | ↓ | 1550 | ~~4~~ 8 | | | ~~X~~ | | | ~~5~~ 5 | | 08 |
| ~~B~~ TRIP BLANK-082817 | NA | ~~NA~~ SS | NA | 3/27/17 | NA | ~~1~~ 8 | ~~5~~ | | | ~~5~~ | ~~5~~ | X | | 09 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier __ _____

Tracking # 7474 0921 0230

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeOH TBR | |
|---|---|---|---|---|---|
| | 8/28/17 | 1700 | | | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: 4.7 °C Bottles Received: 37 | If preservation required by Login: Date/Time |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 8.29.17 Time: 8:45 | 8-187 Condition: NCF / OK |

# MEMORANDUM

**TO:** Project File **DATE:** September 21, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** August 25, and August 28, 2017 – Soil Samples

**LAB:** ESC Lab ID L932611

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Eight (8) soil samples and a trip blank sample were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on August 25 and 28, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L932611. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in X# ESC SDGs (L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L934130, L934673, L934916, and). The quality assurance review of the sample data associated with SDG L932611 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on August 25 and 28, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 4.7 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved water from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. Holding time criteria were not met:

- Soil samples were collected on August 25 and 28, 2017 and analyzed for percent solids on September 5, 2017 slightly beyond the recommended seven day hold. No action is taken in this case as samples were appropriately preserved and it is unlikely that the holding time exceedances significantly impacted sample results.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, trans-1,4-dichloro-2-butene, di-isopropyl ether, n-hexane, and vinyl acetate associated with analytical batch WG1015673 (analyzed on September 1, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*

Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at or above the reported detection limits (RDLs).

*NWTPH-Gx Method:*
Laboratory method blank was included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blank at or above the RDL with the following exception:

- Analytical batch WG1015199: A low level of gasoline range organics was detected at 0.0427 mg/kg above the method detection limit (0.0339 mg/kg) and below the reporting limit (0.100 mg/kg) in the method blank analyzed on August 31, 2017. Gasoline was detected at low levels in the associated sample but sample concentrations exceed established action criteria for contamination in the blank. No action is taken.

*Total Solids by SM 2540 G 2011:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (% solids) were not detected at significant levels in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was collected and analyzed. The target analytes (VOCs) were not detected in the method blanks at or above the RDL with the following exceptions:

- Analytical batch WG1015444: A low level of acrolein was detected in the trip blank analyzed on August 30, 2017. No action is taken since acrolein was not analyzed for in associated samples.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate (MW-136-35 and B-902-15) results are comparable and less than 30% RPD.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results and/or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

*NWTPH-Gx Method:*

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) and/or MS/MSD results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on client sample from another SDG and client sample B-902-15. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSD, and the method blank are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters with the following discussion:

- LCS/LCSD (Batch WG1015444 - water) percent recovery for compound acrolein is above laboratory criteria and qualified by the laboratory (J4). No action was taken as acrolein was not on the target compound list for soils.

- LCSD (Batch WG1015673 – soil) RPD values for compounds carbon disulfide, and 1,1,2-trichlorotrifluoroethane are above laboratory acceptance criteria (20%) and qualified by the laboratory (J3). No action was taken on this basis as LCS/LCSD percent recovery results are recovered wide but are within control limits.

- LCS/LCSD (Batch WG1015673 - soils) percent recoveries for compound trans-1,4-dichloro-2-butene are slightly below laboratory criteria and qualified by the laboratory (J4). **All associated sample results are estimated and qualified (UJ).**

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for water and soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed non-client sample within the analytical batch. MS/MSD % Rs and RPDs for a number of analytes were outside of laboratory control criteria due, in part, to matrix interference. No action was taken as the spike was performed on a non-client sample. Refer to LCS/LCSD results for accuracy and precision data. An MS/MSD was not performed on the water sample. Refer to LCS/LCSD results for accuracy and precision data.

*NWTPH-Gx Method:*
MS/MSD analyses was not performed. Refer to LCS/LCSD results for accuracy and precision data.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report.

## Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.0 | | 1 | 09/05/2017 09:01 | WG1016734 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.181 | B | 0.0372 | 0.110 | 1 | 09/03/2017 01:09 | WG1015199 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.0* | | | *77.0-120* | | *09/03/2017 01:09* | WG1015199 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.275 | 1.37 | 25 | 09/01/2017 16:56 | WG1015673 |
| Acrylonitrile | U | | 0.0492 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Benzene | U | | 0.00742 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Bromobenzene | U | | 0.00780 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Bromodichloromethane | U | | 0.00698 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Bromochloromethane | U | | 0.0107 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| Bromoform | U | | 0.0116 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Bromomethane | U | | 0.0368 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| n-Butylbenzene | U | | 0.00709 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| sec-Butylbenzene | U | | 0.00552 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| tert-Butylbenzene | U | | 0.00566 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Carbon disulfide | U | J3 | 0.00606 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Carbon tetrachloride | U | | 0.00901 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Chlorobenzene | U | | 0.00582 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Chlorodibromomethane | U | | 0.0102 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Chloroethane | U | | 0.0259 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| Chloroform | U | | 0.00628 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| Chloromethane | U | | 0.0103 | 0.0687 | 25 | 09/01/2017 16:56 | WG1015673 |
| 2-Chlorotoluene | U | | 0.00826 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 4-Chlorotoluene | U | | 0.00659 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0288 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.00943 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Dibromomethane | U | | 0.0105 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.00837 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.00657 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.00621 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.0196 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.00547 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.00727 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1-Dichloroethene | U | | 0.00833 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| cis-1,2-Dichloroethene | 0.311 | | 0.00646 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.00725 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.00983 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.00870 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.00569 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.00720 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.00734 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.0213 | 0.0687 | 25 | 09/01/2017 16:56 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.00767 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Di-isopropyl ether | U UJ | J0 | 0.00681 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Ethylbenzene | U | | 0.00815 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.00939 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 2-Hexanone | U | | 0.0376 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |
| n-Hexane | U UJ | J0 | 0.00797 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| Iodomethane | U | | | 0.0694 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Isopropylbenzene | U | | | 0.00668 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| p-Isopropyltoluene | U | | | 0.00560 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 2-Butanone (MEK) | U | | | 0.129 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Methylene Chloride | U | | | 0.0275 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | | 0.0516 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Methyl tert-butyl ether | U | | | 0.00582 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Naphthalene | U | | | 0.0275 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| n-Propylbenzene | U | | | 0.00566 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Styrene | U | | | 0.00643 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | | 0.00725 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | | 0.0100 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | | J3 | 0.0100 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Tetrachloroethene | 5.42 | | | 0.0303 | 0.110 | 100 | 09/04/2017 19:16 | WG1015673 |
| Toluene | U | | | 0.0119 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | | 0.00841 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | | 0.0107 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1,1-Trichloroethane | U | | | 0.00786 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,1,2-Trichloroethane | U | | | 0.00760 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Trichloroethene | 0.462 | | | 0.00767 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Trichlorofluoromethane | U | | | 0.0105 | 0.137 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2,3-Trichloropropane | U | | | 0.0203 | 0.0687 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | | 0.00580 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | | 0.00789 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | | 0.00731 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Vinyl acetate | U | UJ | J0 | 0.0657 | 0.275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Vinyl chloride | U | | | 0.00800 | 0.0275 | 25 | 09/01/2017 16:56 | WG1015673 |
| Xylenes, Total | U | | | 0.0191 | 0.0824 | 25 | 09/01/2017 16:56 | WG1015673 |
| *(S) Toluene-d8* | *104* | | | | *80.0-120* | | *09/04/2017 19:16* | WG1015673 |
| *(S) Toluene-d8* | *110* | | | | *80.0-120* | | *09/01/2017 16:56* | WG1015673 |
| *(S) Dibromofluoromethane* | *94.5* | | | | *74.0-131* | | *09/01/2017 16:56* | WG1015673 |
| *(S) Dibromofluoromethane* | *101* | | | | *74.0-131* | | *09/04/2017 19:16* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *101* | | | | *64.0-132* | | *09/04/2017 19:16* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *97.3* | | | | *64.0-132* | | *09/01/2017 16:56* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.8 | | 1 | 09/05/2017 09:01 | WG1016734 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0356 J | J J0 | 0.0109 | 0.0545 | 1 | 09/01/2017 17:15 | WG1015673 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Bromomethane | U | | 0.00146 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Carbon disulfide | 0.000984 J | J J3 | 0.000241 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Carbon tetrachloride | U | | 0.000357 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Chlorodibromomethane | U | | 0.000406 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| Chloroform | U | | 0.000249 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| Chloromethane | U | | 0.000408 | 0.00272 | 1 | 09/01/2017 17:15 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Dibromomethane | U | | 0.000416 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000777 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| cis-1,2-Dichloroethene | 0.0179 | | 0.000256 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000847 | 0.00272 | 1 | 09/01/2017 17:15 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Di-isopropyl ether | U UJ | J0 | 0.000270 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000372 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |
| n-Hexane | 0.00264 J | J J0 | 0.000316 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 2-Butanone (MEK) | 0.0125 | | 0.00510 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000398 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Tetrachloroethene | 0.000857 J | J | 0.000301 | 0.00109 | 1 | 09/04/2017 18:50 | WG1015673 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Trichloroethene | 0.000504 J | J | 0.000304 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Trichlorofluoromethane | U | | 0.000416 | 0.00545 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2,3-Trichloropropane | U | | 0.000807 | 0.00272 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Vinyl acetate | U UJ | J0 | 0.00260 | 0.0109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Vinyl chloride | 0.00214 | | 0.000317 | 0.00109 | 1 | 09/01/2017 17:15 | WG1015673 |
| Xylenes, Total | U | | 0.000760 | 0.00327 | 1 | 09/01/2017 17:15 | WG1015673 |
| *(S) Toluene-d8* | *96.1* | | | *80.0-120* | | *09/04/2017 18:50* | WG1015673 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/01/2017 17:15* | WG1015673 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *09/04/2017 18:50* | WG1015673 |
| *(S) Dibromofluoromethane* | *98.1* | | | *74.0-131* | | *09/01/2017 17:15* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/01/2017 17:15* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/04/2017 18:50* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.4 | | 1 | 09/05/2017 09:01 | WG1016734 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.134 UJ | J0 | 0.0118 | 0.0592 | 1 | 09/01/2017 17:35 | WG1015673 |
| Acrylonitrile | U | | 0.00212 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Benzene | U | | 0.000320 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Bromobenzene | U | | 0.000336 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Bromodichloromethane | U | | 0.000301 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Bromochloromethane | U | | 0.000462 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| Bromoform | U | | 0.000502 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Bromomethane | U | | 0.00159 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| n-Butylbenzene | U | | 0.000306 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| sec-Butylbenzene | U | | 0.000238 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| tert-Butylbenzene | U | | 0.000244 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Carbon disulfide | 0.00184 | J3 | 0.000262 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Carbon tetrachloride | U | | 0.000388 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Chlorobenzene | U | | 0.000251 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Chlorodibromomethane | U | | 0.000442 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Chloroethane | U | | 0.00112 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| Chloroform | U | | 0.000271 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| Chloromethane | U UJ | J0 | 0.000444 | 0.00296 | 1 | 09/01/2017 17:35 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000356 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000284 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000406 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Dibromomethane | U | | 0.000452 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000361 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000283 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000268 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000844 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000236 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000314 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1-Dichloroethene | 0.000401 J | J | 0.000359 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| cis-1,2-Dichloroethene | 0.139 | | 0.000278 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| trans-1,2-Dichloroethene | 0.00107 J | J | 0.000313 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000424 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000375 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000245 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000310 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000316 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000921 | 0.00296 | 1 | 09/01/2017 17:35 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000330 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Di-isopropyl ether | U UJ | J0 | 0.000294 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Ethylbenzene | U | | 0.000352 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000405 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 2-Hexanone | 0.00471 J | J | 0.00162 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |
| n-Hexane | U UJ | J0 | 0.000343 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Iodomethane | U | | 0.00300 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Isopropylbenzene | U | | 0.000288 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000242 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 2-Butanone (MEK) | 0.169 | | 0.00554 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Methylene Chloride | U | | 0.00118 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00223 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000251 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Naphthalene | U | | 0.00118 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| n-Propylbenzene | U | | 0.000244 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Styrene | U | | 0.000277 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000313 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000432 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000432 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Tetrachloroethene | 0.0534 J | J0 | 0.000327 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Toluene | U | | 0.000514 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | 0.000362 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | 0.000459 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1,1-Trichloroethane | U | | 0.000339 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,1,2-Trichloroethane | U | | 0.000328 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Trichloroethene | 0.00555 | | 0.000330 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Trichlorofluoromethane | U | | 0.000452 | 0.00592 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2,3-Trichloropropane | U | | 0.000878 | 0.00296 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | 0.000250 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | 0.000340 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | 0.000315 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Vinyl acetate | U UJ | J0 | 0.00283 | 0.0118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Vinyl chloride | 0.156 | | 0.000345 | 0.00118 | 1 | 09/01/2017 17:35 | WG1015673 |
| Xylenes, Total | U | | 0.000827 | 0.00355 | 1 | 09/01/2017 17:35 | WG1015673 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/01/2017 17:35* | WG1015673 |
| *(S) Dibromofluoromethane* | *99.7* | | | *74.0-131* | | *09/01/2017 17:35* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/01/2017 17:35* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.9 | | 1 | 09/05/2017 09:01 | WG1016734 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0146 UJ | J0 | 0.0108 | 0.0538 | 1 | 09/01/2017 17:55 | WG1015673 |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Benzene | U | | 0.000291 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Bromobenzene | U | | 0.000306 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Bromodichloromethane | U | | 0.000273 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Bromochloromethane | U | | 0.000420 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| Bromoform | U | | 0.000456 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Bromomethane | U | | 0.00144 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| n-Butylbenzene | U | | 0.000278 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| sec-Butylbenzene | U | | 0.000216 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| tert-Butylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Carbon disulfide | 0.000573 J | J J3 | 0.000238 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Carbon tetrachloride | U | | 0.000353 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Chlorobenzene | U | | 0.000228 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Chlorodibromomethane | U | | 0.000401 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Chloroethane | U | | 0.00102 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| Chloroform | U | | 0.000246 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| Chloromethane | U UJ | J0 | 0.000404 | 0.00269 | 1 | 09/01/2017 17:55 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000324 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000258 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000369 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Dibromomethane | U | | 0.000411 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000767 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1-Dichloroethene | U | | 0.000326 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| cis-1,2-Dichloroethene | 0.00202 | | 0.000253 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.000284 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000385 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000341 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000223 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000282 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000287 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000837 | 0.00269 | 1 | 09/01/2017 17:55 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Di-isopropyl ether | U UJ | J0 | 0.000267 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Ethylbenzene | U | | 0.000320 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000368 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 2-Hexanone | U | | 0.00147 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |
| n-Hexane | 0.00248 J | J J0 | 0.000312 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Iodomethane | U | | 0.00272 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Isopropylbenzene | U | | 0.000262 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000220 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 2-Butanone (MEK) | U | | 0.00504 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Methylene Chloride | U | | 0.00108 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Naphthalene | U | | 0.00108 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| n-Propylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Styrene | U | | 0.000252 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000393 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000393 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Tetrachloroethene | 0.000478 J | J | 0.000297 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Toluene | U | | 0.000467 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | 0.000329 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | 0.000418 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1,1-Trichloroethane | U | | 0.000308 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Trichloroethene | U | | 0.000300 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Trichlorofluoromethane | U | | 0.000411 | 0.00538 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2,3-Trichloropropane | U | | 0.000797 | 0.00269 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | 0.000309 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Vinyl acetate | U | | 0.00257 | 0.0108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Vinyl chloride | 0.00161 | | 0.000313 | 0.00108 | 1 | 09/01/2017 17:55 | WG1015673 |
| Xylenes, Total | U | | 0.000751 | 0.00323 | 1 | 09/01/2017 17:55 | WG1015673 |
| *(S) Toluene-d8* | *99.4* | | | *80.0-120* | | *09/01/2017 17:55* | WG1015673 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/01/2017 17:55* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/01/2017 17:55* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 95.0 | | 1 | 09/05/2017 09:01 | WG1016734 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0121 J | J | 0.0105 | 0.0526 | 1 | 09/01/2017 18:14 | WG1015673 |
| Acrylonitrile | U | | 0.00188 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Benzene | U | | 0.000284 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Bromobenzene | U | | 0.000299 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Bromodichloromethane | U | | 0.000267 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Bromochloromethane | U | | 0.000410 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| Bromoform | U | | 0.000446 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Bromomethane | U | | 0.00141 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| n-Butylbenzene | U | | 0.000272 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| sec-Butylbenzene | U | | 0.000212 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| tert-Butylbenzene | U | | 0.000217 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Carbon disulfide | 0.00210 | J3 | 0.000233 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Carbon tetrachloride | U | | 0.000345 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Chlorobenzene | U | | 0.000223 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Chlorodibromomethane | U | | 0.000393 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Chloroethane | U | | 0.000996 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| Chloroform | U | | 0.000241 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| Chloromethane | U UJ | J0 | 0.000395 | 0.00263 | 1 | 09/01/2017 18:14 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000317 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000253 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000361 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Dibromomethane | U | | 0.000402 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000321 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000252 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000238 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000750 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000209 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000279 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1-Dichloroethene | U | | 0.000319 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| cis-1,2-Dichloroethene | 0.0117 | | 0.000247 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.000278 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000377 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000334 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000218 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000276 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000281 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000819 | 0.00263 | 1 | 09/01/2017 18:14 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000294 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Di-isopropyl ether | U | | 0.000261 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Ethylbenzene | U | | 0.000313 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000360 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 2-Hexanone | U | | 0.00144 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |
| n-Hexane | 0.00176 J | J J0 | 0.000305 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Iodomethane | U | | 0.00266 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Isopropylbenzene | U | | 0.000256 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000215 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 2-Butanone (MEK) | U | | 0.00493 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Methylene Chloride | U | | 0.00105 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00198 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000223 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Naphthalene | U | | 0.00105 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| n-Propylbenzene | U | | 0.000217 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Styrene | U | | 0.000246 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000278 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000384 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000384 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Tetrachloroethene | 0.00777 UJ | J0 | 0.000290 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Toluene | U | | 0.000457 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | 0.000322 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | 0.000408 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1,1-Trichloroethane | U | | 0.000301 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,1,2-Trichloroethane | U | | 0.000292 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Trichloroethene | 0.000437 J | J | 0.000294 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Trichlorofluoromethane | U | | 0.000402 | 0.00526 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2,3-Trichloropropane | U | | 0.000780 | 0.00263 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | 0.000222 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | 0.000302 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | 0.000280 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Vinyl acetate | U UJ | J0 | 0.00252 | 0.0105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Vinyl chloride | U | | 0.000306 | 0.00105 | 1 | 09/01/2017 18:14 | WG1015673 |
| Xylenes, Total | U | | 0.000735 | 0.00316 | 1 | 09/01/2017 18:14 | WG1015673 |
| *(S) Toluene-d8* | *99.5* | | | *80.0-120* | | *09/01/2017 18:14* | WG1015673 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/01/2017 18:14* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/01/2017 18:14* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.6 | | 1 | 09/05/2017 08:49 | WG1016735 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0109 | 0.0546 | 1 | 09/01/2017 18:34 | WG1015673 |
| Acrylonitrile | U | | 0.00196 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Benzene | U | | 0.000295 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Bromochloromethane | U | | 0.000426 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| Bromoform | U | | 0.000463 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Bromomethane | U | | 0.00146 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| n-Butylbenzene | U | | 0.000282 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| sec-Butylbenzene | U | | 0.000220 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Carbon disulfide | 0.00126 | J3 | 0.000241 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Chlorobenzene | U | | 0.000232 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Chloroethane | U | | 0.00103 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| Chloroform | U | | 0.000250 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| Chloromethane | U UJ | J0 | 0.000410 | 0.00273 | 1 | 09/01/2017 18:34 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000329 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000375 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000247 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000779 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1-Dichloroethene | U | | 0.000331 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| cis-1,2-Dichloroethene | 0.0141 | | 0.000257 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000391 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000292 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000850 | 0.00273 | 1 | 09/01/2017 18:34 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000305 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Di-isopropyl ether | U UJ | J0 | 0.000271 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000374 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 2-Hexanone | U | | 0.00150 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |
| n-Hexane | 0.000689 J | J J0 | 0.000317 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 2-Butanone (MEK) | U | | 0.00511 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Methylene Chloride | U | | 0.00109 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | | 0.000232 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Naphthalene | U | | | 0.00109 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| n-Propylbenzene | U | | | 0.000225 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Styrene | U | | | 0.000256 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | | 0.000288 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | | 0.000399 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | | J3 | 0.000399 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Tetrachloroethene | 0.00621 | | | 0.000301 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Toluene | U | | | 0.000474 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | | 0.000334 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | | 0.000424 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1,1-Trichloroethane | U | | | 0.000312 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,1,2-Trichloroethane | U | | | 0.000303 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Trichloroethene | 0.000324 | J | J | 0.000305 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Trichlorofluoromethane | U | | | 0.000417 | 0.00546 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2,3-Trichloropropane | U | | | 0.000809 | 0.00273 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | | 0.000230 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | | 0.000313 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | | 0.000291 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Vinyl acetate | U | UJ | J0 | 0.00261 | 0.0109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Vinyl chloride | U | | | 0.000318 | 0.00109 | 1 | 09/01/2017 18:34 | WG1015673 |
| Xylenes, Total | U | | | 0.000762 | 0.00328 | 1 | 09/01/2017 18:34 | WG1015673 |
| *(S) Toluene-d8* | *102* | | | | *80.0-120* | | *09/01/2017 18:34* | WG1015673 |
| *(S) Dibromofluoromethane* | *101* | | | | *74.0-131* | | *09/01/2017 18:34* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *103* | | | | *64.0-132* | | *09/01/2017 18:34* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.1 | | 1 | 09/05/2017 08:49 | WG1016735 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0239 J | J | 0.0112 | 0.0561 | 1 | 09/01/2017 18:53 | WG1015673 |
| Acrylonitrile | U | | 0.00201 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Benzene | U | | 0.000303 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Bromobenzene | U | | 0.000319 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Bromodichloromethane | U | | 0.000285 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Bromochloromethane | U | | 0.000438 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| Bromoform | U | | 0.000476 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Bromomethane | U | | 0.00150 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| n-Butylbenzene | U | | 0.000290 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| sec-Butylbenzene | U | | 0.000226 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| tert-Butylbenzene | U | | 0.000231 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Carbon disulfide | 0.00112 J | J J3 | 0.000248 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Carbon tetrachloride | U | | 0.000368 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Chlorobenzene | U | | 0.000238 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Chlorodibromomethane | U | | 0.000419 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Chloroethane | U | | 0.00106 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| Chloroform | U | | 0.000257 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| Chloromethane | U UJ | J0 | 0.000421 | 0.00281 | 1 | 09/01/2017 18:53 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000338 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000269 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000385 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Dibromomethane | U | | 0.000429 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000268 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000254 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000800 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000223 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000297 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1-Dichloroethene | 0.000371 J | J | 0.000340 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| cis-1,2-Dichloroethene | 0.174 | | 0.000264 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.000296 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000402 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000356 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000232 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000294 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000300 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000873 | 0.00281 | 1 | 09/01/2017 18:53 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000313 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Di-isopropyl ether | U UJ | J0 | 0.000278 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Ethylbenzene | U | | 0.000333 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000384 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 2-Hexanone | U | | 0.00154 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |
| n-Hexane | 0.000656 J | J | 0.000325 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Iodomethane | U | | 0.00284 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Isopropylbenzene | U | | 0.000273 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000229 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 2-Butanone (MEK) | 0.0640 | | 0.00525 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Methylene Chloride | U | | 0.00112 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00211 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | | 0.000238 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Naphthalene | U | | | 0.00112 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| n-Propylbenzene | U | | | 0.000231 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Styrene | U | | | 0.000263 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | | 0.000296 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | | 0.000410 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | | J3 | 0.000410 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Tetrachloroethene | 0.0853 | UJ | J0 | 0.000310 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Toluene | U | | | 0.000487 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | | 0.000343 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | | 0.000435 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1,1-Trichloroethane | U | | | 0.000321 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,1,2-Trichloroethane | U | | | 0.000311 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Trichloroethene | 0.00255 | | | 0.000313 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Trichlorofluoromethane | U | | | 0.000429 | 0.00561 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2,3-Trichloropropane | U | | | 0.000832 | 0.00281 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | | 0.000237 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | | 0.000322 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | | 0.000299 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Vinyl acetate | U | UJ | J0 | 0.00268 | 0.0112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Vinyl chloride | U | | | 0.000327 | 0.00112 | 1 | 09/01/2017 18:53 | WG1015673 |
| Xylenes, Total | U | | | 0.000783 | 0.00337 | 1 | 09/01/2017 18:53 | WG1015673 |
| *(S) Toluene-d8* | *101* | | | | *80.0-120* | | *09/01/2017 18:53* | WG1015673 |
| *(S) Dibromofluoromethane* | *101* | | | | *74.0-131* | | *09/01/2017 18:53* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *104* | | | | *64.0-132* | | *09/01/2017 18:53* | WG1015673 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.6 | | 1 | 09/05/2017 08:49 | WG1016735 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0237 J | J | 0.0114 | 0.0571 | 1 | 09/01/2017 19:13 | WG1015673 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Bromobenzene | U | | 0.000324 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Bromodichloromethane | U | | 0.000290 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Bromochloromethane | U | | 0.000445 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| Bromoform | U | | 0.000484 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Bromomethane | U | | 0.00153 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Carbon disulfide | 0.00345 | J3 | 0.000252 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Carbon tetrachloride | U | | 0.000374 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Chlorodibromomethane | U | | 0.000426 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Chloroethane | U | | 0.00108 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| Chloroform | U | | 0.000261 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| Chloromethane | U UJ | J0 | 0.000428 | 0.00285 | 1 | 09/01/2017 19:13 | WG1015673 |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 4-Chlorotoluene | U | | 0.000274 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Dibromomethane | U | | 0.000436 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2-Dichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,3-Dichlorobenzene | U | | 0.000273 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,4-Dichlorobenzene | U | | 0.000258 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Dichlorodifluoromethane | U | | 0.000814 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1-Dichloroethene | U | | 0.000346 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| cis-1,2-Dichloroethene | 0.00307 | | 0.000268 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| trans-1,2-Dichloroethene | U | | 0.000301 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2-Dichloropropane | U | | 0.000409 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1-Dichloropropene | U | | 0.000362 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| cis-1,3-Dichloropropene | U | | 0.000299 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| trans-1,3-Dichloropropene | U | | 0.000305 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000888 | 0.00285 | 1 | 09/01/2017 19:13 | WG1015673 |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Di-isopropyl ether | U UJ | J0 | 0.000283 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Ethylbenzene | U | | 0.000339 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Hexachloro-1,3-butadiene | U | | 0.000390 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |
| n-Hexane | 0.00634 J | J | 0.000331 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Iodomethane | U | | 0.00289 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| p-Isopropyltoluene | U | | 0.000233 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 2-Butanone (MEK) | 0.0183 | | 0.00534 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Methylene Chloride | U | | 0.00114 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00215 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Naphthalene | U | | 0.00114 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000417 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1,2-Trichlorotrifluoroethane | U | J3 | 0.000417 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Tetrachloroethene | 0.00134 J | J0 | 0.000315 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Toluene | U | | 0.000495 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2,3-Trichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2,4-Trichlorobenzene | U | | 0.000443 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,1,2-Trichloroethane | U | | 0.000316 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Trichloroethene | U | | 0.000318 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Trichlorofluoromethane | U | | 0.000436 | 0.00571 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2,3-Trichloropropane | U | | 0.000846 | 0.00285 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2,4-Trimethylbenzene | U | | 0.000241 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,2,3-Trimethylbenzene | U | | 0.000328 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| 1,3,5-Trimethylbenzene | U | | 0.000304 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Vinyl acetate | U UJ | J0 | 0.00273 | 0.0114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Vinyl chloride | 0.000670 J | J | 0.000332 | 0.00114 | 1 | 09/01/2017 19:13 | WG1015673 |
| Xylenes, Total | U | | 0.000797 | 0.00342 | 1 | 09/01/2017 19:13 | WG1015673 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/01/2017 19:13* | WG1015673 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/01/2017 19:13* | WG1015673 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/01/2017 19:13* | WG1015673 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 10.0 | 50.0 | 1 | 08/30/2017 23:48 | WG1015444 |
| Acrolein | 18.5 | J J4 | 8.87 | 50.0 | 1 | 08/30/2017 23:48 | WG1015444 |
| Acrylonitrile | U | | 1.87 | 10.0 | 1 | 08/30/2017 23:48 | WG1015444 |
| Benzene | U | | 0.331 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Bromobenzene | U | | 0.352 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Bromodichloromethane | U | | 0.380 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Bromoform | U | | 0.469 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Bromomethane | U | | 0.866 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| n-Butylbenzene | U | | 0.361 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| sec-Butylbenzene | U | | 0.365 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| tert-Butylbenzene | U | | 0.399 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Carbon tetrachloride | U | | 0.379 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Chlorobenzene | U | | 0.348 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Chlorodibromomethane | U | | 0.327 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Chloroethane | U | | 0.453 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Chloroform | U | | 0.324 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Chloromethane | U | | 0.276 | 2.50 | 1 | 08/30/2017 23:48 | WG1015444 |
| 2-Chlorotoluene | U | | 0.375 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 4-Chlorotoluene | U | | 0.351 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.33 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2-Dibromoethane | U | | 0.381 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Dibromomethane | U | | 0.346 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2-Dichlorobenzene | U | | 0.349 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,3-Dichlorobenzene | U | | 0.220 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,4-Dichlorobenzene | U | | 0.274 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Dichlorodifluoromethane | U | | 0.551 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1-Dichloroethane | U | | 0.259 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2-Dichloroethane | U | | 0.361 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1-Dichloroethene | U | | 0.398 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| cis-1,2-Dichloroethene | U | | 0.260 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| trans-1,2-Dichloroethene | U | | 0.396 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2-Dichloropropane | U | | 0.306 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1-Dichloropropene | U | | 0.352 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,3-Dichloropropane | U | | 0.366 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| cis-1,3-Dichloropropene | U | | 0.418 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| trans-1,3-Dichloropropene | U | | 0.419 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 2,2-Dichloropropane | U | | 0.321 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Di-isopropyl ether | U | | 0.320 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Ethylbenzene | U | | 0.384 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Hexachloro-1,3-butadiene | U | | 0.256 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Isopropylbenzene | U | | 0.326 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| p-Isopropyltoluene | U | | 0.350 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 2-Butanone (MEK) | U | | 3.93 | 10.0 | 1 | 08/30/2017 23:48 | WG1015444 |
| Methylene Chloride | U | | 1.00 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 4-Methyl-2-pentanone (MIBK) | U | | 2.14 | 10.0 | 1 | 08/30/2017 23:48 | WG1015444 |
| Methyl tert-butyl ether | U | | 0.367 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| n-Propylbenzene | U | | 0.349 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Styrene | U | | 0.307 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1,1,2-Tetrachloroethane | U | | 0.385 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.303 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Tetrachloroethene | U | | 0.372 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Toluene | U | | 0.412 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,1-Trichloroethane | U | | 0.319 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,1,2-Trichloroethane | U | | 0.383 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Trichloroethene | U | | 0.398 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Trichlorofluoromethane | U | | 1.20 | 5.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2,3-Trichloropropane | U | | 0.807 | 2.50 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2,4-Trimethylbenzene | U | | 0.373 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,2,3-Trimethylbenzene | U | | 0.321 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| 1,3,5-Trimethylbenzene | U | | 0.387 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Vinyl chloride | U | | 0.259 | 1.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| Xylenes, Total | U | | 1.06 | 3.00 | 1 | 08/30/2017 23:48 | WG1015444 |
| *(S) Toluene-d8* | *114* | | | *80.0-120* | | *08/30/2017 23:48* | WG1015444 |
| *(S) Dibromofluoromethane* | *85.2* | | | *76.0-123* | | *08/30/2017 23:48* | WG1015444 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *80.0-120* | | *08/30/2017 23:48* | WG1015444 |

# ANALYTICAL REPORT

September 11, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L932876 |
| Samples Received: | 08/30/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001-02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-219-80 L932876-01 Solid

Collected by: Karsten Springstead
Collected date/time: 08/28/17 16:10
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017019 | 1 | 09/06/17 13:18 | 09/06/17 13:33 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/28/17 16:10 | 08/31/17 18:02 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 25 | 08/28/17 16:10 | 09/06/17 19:24 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 25 | 08/28/17 16:10 | 09/07/17 13:18 | ACG |

## MW-136-50 L932876-02 Solid

Collected by: Karsten Springstead
Collected date/time: 08/28/17 16:05
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017019 | 1 | 09/06/17 13:18 | 09/06/17 13:33 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/28/17 16:05 | 08/31/17 18:22 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 25 | 08/28/17 16:05 | 09/06/17 19:50 | JHH |

## MW-136-65 L932876-03 Solid

Collected by: Karsten Springstead
Collected date/time: 08/28/17 17:30
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018225 | 1 | 09/08/17 13:28 | 09/08/17 13:40 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018274 | 1 | 08/28/17 17:30 | 09/08/17 14:32 | JAH |

## MW-134-20 L932876-04 Solid

Collected by: Karsten Springstead
Collected date/time: 08/29/17 08:50
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017019 | 1 | 09/06/17 13:18 | 09/06/17 13:33 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1017991 | 25 | 09/07/17 20:14 | 09/08/17 12:23 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 08:50 | 08/31/17 18:43 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 08:50 | 09/06/17 20:16 | JHH |

## MW-136-75 L932876-05 Solid

Collected by: Karsten Springstead
Collected date/time: 08/29/17 08:30
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017019 | 1 | 09/06/17 13:18 | 09/06/17 13:33 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 08:30 | 08/31/17 19:04 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 08:30 | 09/06/17 20:41 | JHH |

## MW-136-85 L932876-06 Solid

Collected by: Karsten Springstead
Collected date/time: 08/29/17 08:40
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017019 | 1 | 09/06/17 13:18 | 09/06/17 13:33 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 08:40 | 08/31/17 19:24 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 08:40 | 09/06/17 21:08 | JHH |

## MW-136-95 L932876-07 Solid

Collected by: Karsten Springstead
Collected date/time: 08/29/17 09:15
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017019 | 1 | 09/06/17 13:18 | 09/06/17 13:33 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 09:15 | 08/31/17 19:59 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 09:15 | 09/06/17 21:34 | JHH |

## MW-134-43 L932876-08 Solid

Collected by: Karsten Springstead
Collected date/time: 08/29/17 10:15
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017019 | 1 | 09/06/17 13:18 | 09/06/17 13:33 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1017991 | 25 | 08/29/17 10:15 | 09/08/17 12:45 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 10:15 | 08/31/17 20:20 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 25 | 08/29/17 10:15 | 09/06/17 21:59 | JHH |

## MW-134-50 L932876-09 Solid

Collected by: Karsten Springstead
Collected date/time: 08/29/17 10:20
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017019 | 1 | 09/06/17 13:18 | 09/06/17 13:33 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1015659 | 1 | 08/29/17 10:20 | 08/31/17 16:59 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 10:20 | 08/31/17 20:40 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 100 | 08/29/17 10:20 | 09/06/17 22:25 | JHH |

## MW-134-60 L932876-10 Solid

Collected by: Karsten Springstead
Collected date/time: 08/29/17 11:20
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017019 | 1 | 09/06/17 13:18 | 09/06/17 13:33 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1015659 | 1 | 08/29/17 11:20 | 08/31/17 17:22 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 11:20 | 08/31/17 21:01 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 25 | 08/29/17 11:20 | 09/06/17 22:51 | JHH |

## MW-134-70 L932876-11 Solid

Collected by: Karsten Springstead
Collected date/time: 08/29/17 12:00
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017021 | 1 | 09/06/17 09:53 | 09/06/17 10:08 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1017991 | 25.75 | 08/29/17 12:00 | 09/08/17 13:08 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 12:00 | 08/31/17 21:21 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 12:00 | 09/06/17 23:17 | JHH |

## MW-134-80 L932876-12 Solid

Collected by: Karsten Springstead
Collected date/time: 08/29/17 14:00
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017021 | 1 | 09/06/17 09:53 | 09/06/17 10:08 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1017991 | 26.75 | 08/29/17 14:00 | 09/08/17 13:30 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 14:00 | 08/31/17 21:42 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 14:00 | 09/06/17 23:43 | JHH |

## B-903-100 L932876-13 Solid

Collected by: Karsten Springstead
Collected date/time: 08/29/17 13:55
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017021 | 1 | 09/06/17 09:53 | 09/06/17 10:08 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1017991 | 25 | 08/29/17 13:55 | 09/08/17 13:52 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 13:55 | 08/31/17 22:03 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 13:55 | 09/07/17 00:09 | JHH |

## MW-134-90 L932876-14 Solid

Collected by: Karsten Springstead
Collected date/time: 08/29/17 15:35
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017021 | 1 | 09/06/17 09:53 | 09/06/17 10:08 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1017991 | 25 | 08/29/17 15:35 | 09/08/17 14:15 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 1 | 08/29/17 15:35 | 08/31/17 22:23 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015700 | 25 | 08/29/17 15:35 | 09/07/17 12:58 | ACG |

## BLANK L932876-15 GW

Collected by: Karsten Springstead
Collected date/time: 06/08/17 00:00
Received date/time: 08/30/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015444 | 1 | 08/31/17 00:26 | 08/31/17 00:26 | ACG |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.1 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0109 | 0.0543 | 1 | 08/31/2017 18:02 | WG1015700 |
| Acrylonitrile | U | | 0.00194 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Benzene | U | | 0.000293 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Bromobenzene | U | | 0.000308 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Bromochloromethane | U | | 0.000424 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| Bromoform | U | | 0.000461 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Bromomethane | U | | 0.00146 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| n-Butylbenzene | U | | 0.000280 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| sec-Butylbenzene | U | | 0.000218 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Carbon disulfide | 0.000358 | J | 0.000240 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Carbon tetrachloride | U | | 0.00891 | 0.0272 | 25 | 09/06/2017 19:24 | WG1015700 |
| Chlorobenzene | U | | 0.000230 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Chlorodibromomethane | U | | 0.000405 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Chloroethane | U | | 0.00103 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| Chloroform | U | | 0.000249 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| Chloromethane | U | | 0.0102 | 0.0679 | 25 | 09/06/2017 19:24 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000327 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000373 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Dibromomethane | U | | 0.000415 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000245 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000774 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000329 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.00639 | 0.0272 | 25 | 09/06/2017 19:24 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.00717 | 0.0272 | 25 | 09/06/2017 19:24 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000389 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000344 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000845 | 0.00272 | 1 | 08/31/2017 18:02 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.00758 | 0.0272 | 25 | 09/06/2017 19:24 | WG1015700 |
| Di-isopropyl ether | U | | 0.00673 | 0.0272 | 25 | 09/06/2017 19:24 | WG1015700 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000371 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |
| n-Hexane | 0.00111 | J J0 | 0.000315 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Isopropylbenzene | U | | 0.000264 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00508 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Methylene Chloride | U | J0 | 0.00109 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000230 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Naphthalene | U | | 0.00109 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Styrene | U | | 0.000254 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000396 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000396 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Tetrachloroethene | U | | 0.000300 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Toluene | U | | 0.000471 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000421 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.00777 | 0.0272 | 25 | 09/06/2017 19:24 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000301 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Trichloroethene | U | | 0.000303 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000415 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000805 | 0.00272 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.00573 | 0.0272 | 25 | 09/07/2017 13:18 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.00780 | 0.0272 | 25 | 09/07/2017 13:18 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Vinyl chloride | U | | 0.000316 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Xylenes, Total | U | | 0.000758 | 0.00326 | 1 | 08/31/2017 18:02 | WG1015700 |
| *(S) Toluene-d8* | *99.5* | | | *80.0-120* | | *08/31/2017 18:02* | WG1015700 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/07/2017 13:18* | WG1015700 |
| *(S) Toluene-d8* | *98.9* | | | *80.0-120* | | *09/06/2017 19:24* | WG1015700 |
| *(S) Dibromofluoromethane* | *96.0* | | | *74.0-131* | | *08/31/2017 18:02* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.1* | | | *74.0-131* | | *09/07/2017 13:18* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.5* | | | *74.0-131* | | *09/06/2017 19:24* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *87.6* | | | *64.0-132* | | *08/31/2017 18:02* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/06/2017 19:24* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *98.8* | | | *64.0-132* | | *09/07/2017 13:18* | WG1015700 |

Sample Narrative:

L932876-01 WG1015700: No low level sodium bisulfite vials remaining,

L932876-01 WG1015700: No low level sodium bisulfite vials remaining

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.9 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0403 | J J0 | 0.0115 | 0.0575 | 1 | 08/31/2017 18:22 | WG1015700 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Benzene | U | | 0.000311 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Bromobenzene | U | | 0.000327 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Bromochloromethane | U | | 0.000449 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| Bromoform | U | | 0.000488 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Bromomethane | U | | 0.00154 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| n-Butylbenzene | U | | 0.000297 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| tert-Butylbenzene | U | | 0.000237 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Carbon disulfide | 0.00138 | | 0.000254 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Carbon tetrachloride | U | | 0.00944 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| Chlorobenzene | U | | 0.000244 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Chlorodibromomethane | U | | 0.000429 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Chloroethane | U | | 0.00109 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| Chloroform | U | | 0.000264 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| Chloromethane | U | | 0.0108 | 0.0719 | 25 | 09/06/2017 19:50 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000346 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000276 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000395 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Dibromomethane | U | | 0.000440 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000275 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000260 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000820 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000229 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000305 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000349 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.00677 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.00759 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000412 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000365 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000307 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000895 | 0.00288 | 1 | 08/31/2017 18:22 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.00803 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| Di-isopropyl ether | U | | 0.00713 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| Ethylbenzene | U | | 0.000342 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000394 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |
| n-Hexane | 0.000453 | J J0 | 0.000334 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Iodomethane | U | | 0.00291 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 2-Butanone (MEK) | 0.0103 | J | 0.00539 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Methylene Chloride | U | J0 | 0.00115 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Naphthalene | U | | 0.00115 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000304 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000420 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000420 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Tetrachloroethene | U | | 0.000318 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Toluene | U | | 0.000499 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000446 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.00823 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000319 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Trichloroethene | U | | 0.000321 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000440 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000853 | 0.00288 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.00608 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.00826 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000306 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Vinyl acetate | U | | 0.00275 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Vinyl chloride | U | | 0.000335 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Xylenes, Total | U | | 0.000803 | 0.00345 | 1 | 08/31/2017 18:22 | WG1015700 |
| *(S) Toluene-d8* | *86.6* | | | *80.0-120* | | *09/06/2017 19:50* | WG1015700 |
| *(S) Toluene-d8* | *99.6* | | | *80.0-120* | | *08/31/2017 18:22* | WG1015700 |
| *(S) Dibromofluoromethane* | *98.3* | | | *74.0-131* | | *09/06/2017 19:50* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.5* | | | *74.0-131* | | *08/31/2017 18:22* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *09/06/2017 19:50* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *90.2* | | | *64.0-132* | | *08/31/2017 18:22* | WG1015700 |

**Sample Narrative:**

L932876-02 WG1015700: No low level sodium bisulfite vials remaining

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.0 | | 1 | 09/08/2017 13:40 | WG1018225 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0178 | J | 0.0109 | 0.0544 | 1 | 09/08/2017 14:32 | WG1018274 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Benzene | 0.000838 | J | 0.000294 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Bromochloromethane | U | | 0.000424 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| Bromoform | U | | 0.000461 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Bromomethane | U | | 0.00146 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Carbon disulfide | 0.00256 | | 0.000240 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Carbon tetrachloride | U | | 0.000357 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Chlorodibromomethane | U | | 0.000406 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Chloroethane | U | | 0.00103 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| Chloroform | U | | 0.000249 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| Chloromethane | U | | 0.000408 | 0.00272 | 1 | 09/08/2017 14:32 | WG1018274 |
| 2-Chlorotoluene | U | | 0.000327 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2-Dibromoethane | U | | 0.000373 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Dibromomethane | U | | 0.000415 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Dichlorodifluoromethane | U | | 0.000775 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| cis-1,2-Dichloroethene | U | | 0.000256 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| trans-1,2-Dichloroethene | U | | 0.000287 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2-Dichloropropane | U | | 0.000389 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| trans-1,4-Dichloro-2-butene | U | | 0.000846 | 0.00272 | 1 | 09/08/2017 14:32 | WG1018274 |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Hexachloro-1,3-butadiene | U | | 0.000372 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |
| n-Hexane | 0.00387 | J | 0.000315 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Isopropylbenzene | U | | 0.000264 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 2-Butanone (MEK) | U | | 0.00509 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Methylene Chloride | U | | 0.00109 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Naphthalene | U | | 0.00109 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Styrene | U | | 0.000254 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000397 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000397 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Tetrachloroethene | U | | 0.000300 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Toluene | U | | 0.000472 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2,3-Trichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2,4-Trichlorobenzene | U | | 0.000422 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1,1-Trichloroethane | U | | 0.000311 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1,2-Trichloroethane | U | | 0.000301 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Trichloroethene | U | | 0.000303 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Trichlorofluoromethane | U | | 0.000415 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2,3-Trichloropropane | U | | 0.000806 | 0.00272 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2,4-Trimethylbenzene | U | | 0.000229 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2,3-Trimethylbenzene | U | | 0.000312 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Vinyl chloride | U | | 0.000316 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Xylenes, Total | U | | 0.000759 | 0.00326 | 1 | 09/08/2017 14:32 | WG1018274 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/08/2017 14:32* | WG1018274 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/08/2017 14:32* | WG1018274 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/08/2017 14:32* | WG1018274 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.0 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 1.12 | 3.29 | 25 | 09/08/2017 12:23 | WG1017991 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.2* | | | *77.0-120* | | *09/08/2017 12:23* | WG1017991 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0219 | J J0 | 0.0132 | 0.0658 | 1 | 08/31/2017 18:43 | WG1015700 |
| Acrylonitrile | U | | 0.00236 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Benzene | 0.00197 | | 0.000355 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Bromobenzene | U | | 0.000374 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Bromodichloromethane | U | | 0.000334 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Bromochloromethane | U | | 0.000513 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| Bromoform | U | | 0.000558 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Bromomethane | U | | 0.00176 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| n-Butylbenzene | U | | 0.000340 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| sec-Butylbenzene | U | | 0.000265 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| tert-Butylbenzene | U | | 0.000271 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Carbon disulfide | 0.000769 | J | 0.000291 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Carbon tetrachloride | U | | 0.000432 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| Chlorobenzene | U | | 0.000279 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Chlorodibromomethane | U | | 0.000491 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Chloroethane | U | | 0.00124 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| Chloroform | U | | 0.000301 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| Chloromethane | U | | 0.000494 | 0.00329 | 1 | 09/06/2017 20:16 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000396 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000316 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00138 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000451 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Dibromomethane | U | | 0.000503 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000401 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000315 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000297 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000938 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000262 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000349 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000399 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.000309 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000347 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000471 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000417 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000272 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000345 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000351 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.00102 | 0.00329 | 1 | 08/31/2017 18:43 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000367 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| Di-isopropyl ether | U | | 0.000326 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| Ethylbenzene | U | | 0.000391 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000450 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 2-Hexanone | U | | 0.00180 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |
| n-Hexane | U | J0 | 0.000382 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00333 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Isopropylbenzene | U | | 0.000320 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000268 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00616 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Methylene Chloride | U | J0 | 0.00132 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00247 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000279 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Naphthalene | U | | 0.00132 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| n-Propylbenzene | U | | 0.000271 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Styrene | U | | 0.000308 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000347 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000480 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000480 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Tetrachloroethene | U | | 0.000363 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Toluene | U | | 0.000571 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000403 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000511 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000376 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000365 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Trichloroethene | U | | 0.000367 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000503 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000975 | 0.00329 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000278 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000378 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000350 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Vinyl acetate | U | | 0.00315 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Vinyl chloride | U | | 0.000383 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Xylenes, Total | U | | 0.000919 | 0.00395 | 1 | 08/31/2017 18:43 | WG1015700 |
| *(S) Toluene-d8* | *95.0* | | | *80.0-120* | | *09/06/2017 20:16* | WG1015700 |
| *(S) Toluene-d8* | *100* | | | *80.0-120* | | *08/31/2017 18:43* | WG1015700 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *09/06/2017 20:16* | WG1015700 |
| *(S) Dibromofluoromethane* | *97.8* | | | *74.0-131* | | *08/31/2017 18:43* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *88.9* | | | *64.0-132* | | *08/31/2017 18:43* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/06/2017 20:16* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.0 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0111 | 0.0555 | 1 | 08/31/2017 19:04 | WG1015700 |
| Acrylonitrile | U | | 0.00199 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Benzene | U | | 0.000300 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Bromobenzene | U | | 0.000315 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Bromodichloromethane | U | | 0.000282 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Bromochloromethane | U | | 0.000433 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| Bromoform | U | | 0.000471 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Bromomethane | U | | 0.00149 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| n-Butylbenzene | U | | 0.000287 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| tert-Butylbenzene | U | | 0.000229 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Carbon disulfide | 0.000260 | J | 0.000246 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Carbon tetrachloride | U | | 0.000364 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| Chlorobenzene | U | | 0.000236 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Chlorodibromomethane | U | | 0.000414 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Chloroethane | U | | 0.00105 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| Chloroform | U | | 0.000254 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| Chloromethane | U | | 0.000417 | 0.00278 | 1 | 09/06/2017 20:41 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000334 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000267 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000381 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Dibromomethane | U | | 0.000424 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000266 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000251 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000792 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000221 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000294 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000337 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.000261 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000293 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000398 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000352 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000230 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000291 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000297 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000864 | 0.00278 | 1 | 08/31/2017 19:04 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000310 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| Di-isopropyl ether | U | | 0.000276 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| Ethylbenzene | U | | 0.000330 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000380 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 2-Hexanone | U | | 0.00152 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |
| n-Hexane | U | J0 | 0.000322 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Iodomethane | U | | 0.00281 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Isopropylbenzene | U | | 0.000270 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000227 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00520 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Methylene Chloride | U | J0 | 0.00111 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00209 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000236 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Naphthalene | U | | 0.00111 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| n-Propylbenzene | U | | 0.000229 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Styrene | U | | 0.000260 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000293 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000405 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000405 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Tetrachloroethene | U | | 0.000307 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Toluene | U | | 0.000482 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000340 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000431 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000318 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000308 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Trichloroethene | U | | 0.000310 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000424 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000823 | 0.00278 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000234 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000319 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000296 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Vinyl acetate | U | | 0.00266 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Vinyl chloride | U | | 0.000323 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Xylenes, Total | U | | 0.000775 | 0.00333 | 1 | 08/31/2017 19:04 | WG1015700 |
| *(S) Toluene-d8* | *94.6* | | | *80.0-120* | | *09/06/2017 20:41* | WG1015700 |
| *(S) Toluene-d8* | *98.5* | | | *80.0-120* | | *08/31/2017 19:04* | WG1015700 |
| *(S) Dibromofluoromethane* | *113* | | | *74.0-131* | | *09/06/2017 20:41* | WG1015700 |
| *(S) Dibromofluoromethane* | *98.0* | | | *74.0-131* | | *08/31/2017 19:04* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *89.6* | | | *64.0-132* | | *08/31/2017 19:04* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/06/2017 20:41* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.6 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0112 | 0.0558 | 1 | 08/31/2017 19:24 | WG1015700 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Benzene | U | | 0.000301 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Bromochloromethane | U | | 0.000435 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| Bromoform | U | | 0.000473 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Bromomethane | U | | 0.00150 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| sec-Butylbenzene | U | | 0.000224 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Carbon disulfide | 0.000451 | J | 0.000247 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Carbon tetrachloride | U | | 0.000366 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Chlorodibromomethane | U | | 0.000416 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Chloroethane | U | | 0.00106 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| Chloroform | U | | 0.000256 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| Chloromethane | U | | 0.000419 | 0.00279 | 1 | 09/06/2017 21:08 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000383 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Dibromomethane | U | | 0.000426 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000340 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000796 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000296 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000338 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.000262 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000295 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000400 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000354 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000292 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000869 | 0.00279 | 1 | 08/31/2017 19:24 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000311 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000382 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |
| n-Hexane | U | J0 | 0.000324 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Iodomethane | U | | 0.00282 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Isopropylbenzene | U | | 0.000271 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00522 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Methylene Chloride | U | J0 | 0.00112 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Naphthalene | U | | 0.00112 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Styrene | U | | 0.000261 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000407 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000407 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Tetrachloroethene | U | | 0.000308 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Toluene | U | | 0.000485 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000433 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Trichloroethene | U | | 0.000311 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000426 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000827 | 0.00279 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Vinyl chloride | U | | 0.000325 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Xylenes, Total | U | | 0.000779 | 0.00335 | 1 | 08/31/2017 19:24 | WG1015700 |
| *(S) Toluene-d8* | *99.7* | | | *80.0-120* | | *08/31/2017 19:24* | WG1015700 |
| *(S) Toluene-d8* | *94.3* | | | *80.0-120* | | *09/06/2017 21:08* | WG1015700 |
| *(S) Dibromofluoromethane* | *113* | | | *74.0-131* | | *09/06/2017 21:08* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.8* | | | *74.0-131* | | *08/31/2017 19:24* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *89.2* | | | *64.0-132* | | *08/31/2017 19:24* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/06/2017 21:08* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.4 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0112 | 0.0560 | 1 | 08/31/2017 19:59 | WG1015700 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Benzene | U | | 0.000302 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Bromobenzene | U | | 0.000318 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Bromochloromethane | U | | 0.000436 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| Bromoform | U | | 0.000474 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Bromomethane | U | | 0.00150 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| n-Butylbenzene | U | | 0.000289 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| sec-Butylbenzene | U | | 0.000225 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| tert-Butylbenzene | U | | 0.000231 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Carbon disulfide | U | | 0.000247 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Carbon tetrachloride | U | | 0.000367 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Chlorodibromomethane | U | | 0.000417 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Chloroethane | U | | 0.00106 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| Chloroform | U | | 0.000256 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| Chloromethane | U | | 0.000420 | 0.00280 | 1 | 09/06/2017 21:34 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000337 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000269 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000384 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Dibromomethane | U | | 0.000427 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000253 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000798 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000223 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000297 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000339 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.000263 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000295 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000401 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000355 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000232 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000293 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000299 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000871 | 0.00280 | 1 | 08/31/2017 19:59 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000312 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| Di-isopropyl ether | U | | 0.000278 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000383 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |
| n-Hexane | U | J0 | 0.000325 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Isopropylbenzene | U | | 0.000272 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00524 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Methylene Chloride | U | J0 | 0.00112 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Naphthalene | U | | 0.00112 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| n-Propylbenzene | U | | 0.000231 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Styrene | U | | 0.000262 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000408 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000408 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Tetrachloroethene | U | | 0.000309 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Toluene | U | | 0.000486 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000434 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000320 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000310 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Trichloroethene | U | | 0.000312 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000427 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000829 | 0.00280 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000321 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000298 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Vinyl chloride | U | | 0.000326 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Xylenes, Total | U | | 0.000781 | 0.00336 | 1 | 08/31/2017 19:59 | WG1015700 |
| *(S) Toluene-d8* | *95.6* | | | *80.0-120* | | *09/06/2017 21:34* | WG1015700 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/31/2017 19:59* | WG1015700 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/06/2017 21:34* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.3* | | | *74.0-131* | | *08/31/2017 19:59* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *89.1* | | | *64.0-132* | | *08/31/2017 19:59* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/06/2017 21:34* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.2 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.984 | 2.90 | 25 | 09/08/2017 12:45 | WG1017991 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.9* | | | *77.0-120* | | *09/08/2017 12:45* | WG1017991 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0116 | 0.0580 | 1 | 08/31/2017 20:20 | WG1015700 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Bromochloromethane | U | | 0.000453 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| Bromoform | U | | 0.000492 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Bromomethane | U | | 0.00155 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Carbon disulfide | 0.00115 | J | 0.000256 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Carbon tetrachloride | U | | 0.00951 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Chloroethane | 0.00137 | J | 0.00110 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| Chloroform | U | | 0.000266 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| Chloromethane | U | | 0.0109 | 0.0725 | 25 | 09/06/2017 21:59 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000398 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000827 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1-Dichloroethene | 0.00306 | | 0.000352 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| cis-1,2-Dichloroethene | 2.58 | | 0.00682 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| trans-1,2-Dichloroethene | 0.0111 | J | 0.00766 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000415 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000903 | 0.00290 | 1 | 08/31/2017 20:20 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.00810 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| Di-isopropyl ether | U | | 0.00719 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |
| n-Hexane | 0.000648 | J J0 | 0.000336 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00543 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Methylene Chloride | U | J0 | 0.00116 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Naphthalene | U | | 0.00116 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Tetrachloroethene | 0.00863 | | 0.000320 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Toluene | U | | 0.000504 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.00830 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Trichloroethene | 0.0551 | | 0.000324 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000860 | 0.00290 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.00613 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.00833 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Vinyl chloride | 0.217 | | 0.00845 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| Xylenes, Total | U | | 0.000810 | 0.00348 | 1 | 08/31/2017 20:20 | WG1015700 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/31/2017 20:20* | WG1015700 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/06/2017 21:59* | WG1015700 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/06/2017 21:59* | WG1015700 |
| *(S) Dibromofluoromethane* | *96.9* | | | *74.0-131* | | *08/31/2017 20:20* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *87.2* | | | *64.0-132* | | *08/31/2017 20:20* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *09/06/2017 21:59* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.0 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.35 | | 0.0373 | 0.110 | 1 | 08/31/2017 16:59 | WG1015659 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.6* | | | *77.0-120* | | *08/31/2017 16:59* | WG1015659 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0110 | 0.0550 | 1 | 08/31/2017 20:40 | WG1015700 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Benzene | U | | 0.000297 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Bromobenzene | U | | 0.000312 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Bromodichloromethane | U | | 0.000279 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Bromochloromethane | U | | 0.000429 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| Bromoform | U | | 0.000466 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Bromomethane | U | | 0.00147 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| n-Butylbenzene | U | | 0.000284 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| tert-Butylbenzene | U | | 0.000226 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Carbon disulfide | 0.000786 | J | 0.000243 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Carbon tetrachloride | U | | 0.0361 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Chlorodibromomethane | U | | 0.000410 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Chloroethane | U | | 0.00104 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| Chloroform | U | | 0.000252 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| Chloromethane | U | | 0.0412 | 0.275 | 100 | 09/06/2017 22:25 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000331 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000264 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000377 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Dibromomethane | U | | 0.000420 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000335 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000263 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000248 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000784 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000291 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1-Dichloroethene | 0.00222 | | 0.000333 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| cis-1,2-Dichloroethene | 0.740 | | 0.0258 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.0290 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000394 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000349 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000288 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000294 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000855 | 0.00275 | 1 | 08/31/2017 20:40 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.0307 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| Di-isopropyl ether | U | | 0.0273 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| Ethylbenzene | U | | 0.000327 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000376 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |
| n-Hexane | U | J0 | 0.000319 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00278 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Isopropylbenzene | U | | 0.000267 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000224 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00515 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Methylene Chloride | U | J0 | 0.00110 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00207 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Naphthalene | U | | 0.00110 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| n-Propylbenzene | U | | 0.000226 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Styrene | U | | 0.000257 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000290 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000401 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000401 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Tetrachloroethene | 17.9 | | 0.0303 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| Toluene | U | | 0.000477 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000427 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.0314 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000305 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Trichloroethene | 2.34 | | 0.0307 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000420 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000815 | 0.00275 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2,4-Trimethylbenzene | 0.0675 | J | 0.0232 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.0316 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000292 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Vinyl acetate | U | | 0.00263 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Vinyl chloride | 0.0196 | | 0.000320 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Xylenes, Total | U | | 0.000767 | 0.00330 | 1 | 08/31/2017 20:40 | WG1015700 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/06/2017 22:25* | WG1015700 |
| *(S) Toluene-d8* | *97.6* | | | *80.0-120* | | *08/31/2017 20:40* | WG1015700 |
| *(S) Dibromofluoromethane* | *98.1* | | | *74.0-131* | | *08/31/2017 20:40* | WG1015700 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/06/2017 22:25* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *90.4* | | | *64.0-132* | | *08/31/2017 20:40* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *99.8* | | | *64.0-132* | | *09/06/2017 22:25* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.6 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.447 | | 0.0374 | 0.110 | 1 | 08/31/2017 17:22 | WG1015659 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.6* | | | *77.0-120* | | *08/31/2017 17:22* | WG1015659 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0221 | J J0 | 0.0110 | 0.0552 | 1 | 08/31/2017 21:01 | WG1015700 |
| Acrylonitrile | U | | 0.00198 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Benzene | U | | 0.000298 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Bromobenzene | U | | 0.000314 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Bromochloromethane | U | | 0.000431 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| Bromoform | U | | 0.000468 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Bromomethane | U | | 0.00148 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| n-Butylbenzene | U | | 0.000285 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| sec-Butylbenzene | U | | 0.000222 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Carbon disulfide | 0.00223 | | 0.000244 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Carbon tetrachloride | U | | 0.00906 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Chlorodibromomethane | U | | 0.000412 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Chloroethane | U | | 0.00104 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| Chloroform | U | | 0.000253 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| Chloromethane | U | | 0.0104 | 0.0690 | 25 | 09/06/2017 22:51 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000265 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000379 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Dibromomethane | U | | 0.000422 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000264 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000250 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000787 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000220 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000293 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1-Dichloroethene | 0.00190 | | 0.000335 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| cis-1,2-Dichloroethene | 4.46 | | 0.00649 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.00729 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000395 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000350 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000229 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000295 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000859 | 0.00276 | 1 | 08/31/2017 21:01 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.00771 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| Di-isopropyl ether | U | | 0.00685 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| Ethylbenzene | U | | 0.000328 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000378 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |
| n-Hexane | 0.00136 | J J0 | 0.000320 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00517 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Methylene Chloride | U | J0 | 0.00110 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00208 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000234 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Naphthalene | U | | 0.00110 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000292 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000403 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000403 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Tetrachloroethene | 0.0770 | | 0.000305 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Toluene | U | | 0.000479 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000338 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000428 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.00790 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000306 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Trichloroethene | 0.00544 | | 0.000308 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000422 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000818 | 0.00276 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.00583 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.00793 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000294 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Vinyl acetate | U | | 0.00264 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Vinyl chloride | 0.0118 | | 0.000321 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Xylenes, Total | U | | 0.000771 | 0.00331 | 1 | 08/31/2017 21:01 | WG1015700 |
| *(S) Toluene-d8* | *88.0* | | | *80.0-120* | | *09/06/2017 22:51* | WG1015700 |
| *(S) Toluene-d8* | *98.6* | | | *80.0-120* | | *08/31/2017 21:01* | WG1015700 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/06/2017 22:51* | WG1015700 |
| *(S) Dibromofluoromethane* | *97.0* | | | *74.0-131* | | *08/31/2017 21:01* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *92.0* | | | *64.0-132* | | *08/31/2017 21:01* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *99.8* | | | *64.0-132* | | *09/06/2017 22:51* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 78.4 | | 1 | 09/06/2017 10:08 | WG1017021 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 1.11 | 3.28 | 25.75 | 09/08/2017 13:08 | WG1017991 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-120* | | *09/08/2017 13:08* | WG1017991 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0128 | 0.0638 | 1 | 08/31/2017 21:21 | WG1015700 |
| Acrylonitrile | U | | 0.00228 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Benzene | U | | 0.000344 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Bromobenzene | U | | 0.000362 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Bromodichloromethane | U | | 0.000324 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Bromochloromethane | U | | 0.000497 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| Bromoform | U | | 0.000541 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Bromomethane | U | | 0.00171 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| n-Butylbenzene | U | | 0.000329 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| sec-Butylbenzene | U | | 0.000256 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| tert-Butylbenzene | U | | 0.000263 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Carbon disulfide | 0.00153 | | 0.000282 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Carbon tetrachloride | U | | 0.000418 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| Chlorobenzene | U | | 0.000270 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Chlorodibromomethane | U | | 0.000476 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Chloroethane | U | | 0.00121 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| Chloroform | U | | 0.000292 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| Chloromethane | 0.00219 | J | 0.000478 | 0.00319 | 1 | 09/06/2017 23:17 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000384 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000306 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00134 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000438 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Dibromomethane | U | | 0.000487 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000389 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000305 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000288 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000910 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000254 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000338 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000387 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| cis-1,2-Dichloroethene | 0.0468 | | 0.000300 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000337 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000457 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000404 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000264 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000334 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000341 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000992 | 0.00319 | 1 | 08/31/2017 21:21 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000356 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| Di-isopropyl ether | U | | 0.000316 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| Ethylbenzene | U | | 0.000379 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000436 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 2-Hexanone | U | | 0.00175 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |
| n-Hexane | 0.00178 | J J0 | 0.000370 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00323 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Isopropylbenzene | U | | 0.000310 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000260 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00597 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Methylene Chloride | U | J0 | 0.00128 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00240 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000270 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Naphthalene | U | | 0.00128 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| n-Propylbenzene | U | | 0.000263 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Styrene | U | | 0.000298 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000337 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000466 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000466 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Tetrachloroethene | 0.0742 | | 0.000352 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Toluene | U | | 0.000554 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000390 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000495 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000365 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000353 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Trichloroethene | 0.0111 | | 0.000356 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000487 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000945 | 0.00319 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000269 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000366 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000339 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Vinyl acetate | U | | 0.00305 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Vinyl chloride | 0.0426 | | 0.000371 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Xylenes, Total | U | | 0.000890 | 0.00383 | 1 | 08/31/2017 21:21 | WG1015700 |
| *(S) Toluene-d8* | *93.6* | | | *80.0-120* | | *09/06/2017 23:17* | WG1015700 |
| *(S) Toluene-d8* | *100* | | | *80.0-120* | | *08/31/2017 21:21* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.9* | | | *74.0-131* | | *08/31/2017 21:21* | WG1015700 |
| *(S) Dibromofluoromethane* | *115* | | | *74.0-131* | | *09/06/2017 23:17* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *92.9* | | | *64.0-132* | | *08/31/2017 21:21* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/06/2017 23:17* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.5 | | 1 | 09/06/2017 10:08 | WG1017021 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.970 | 2.86 | 26.75 | 09/08/2017 13:30 | WG1017991 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.7* | | | *77.0-120* | | *09/08/2017 13:30* | WG1017991 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0107 | 0.0535 | 1 | 08/31/2017 21:42 | WG1015700 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Benzene | U | | 0.000289 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Bromobenzene | U | | 0.000304 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Bromochloromethane | U | | 0.000417 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| Bromoform | U | | 0.000453 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Bromomethane | U | | 0.00143 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Carbon disulfide | 0.000414 | J | 0.000236 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Carbon tetrachloride | U | | 0.000351 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Chloroethane | U | | 0.00101 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| Chloroform | U | | 0.000245 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| Chloromethane | 0.00164 | J | 0.000401 | 0.00267 | 1 | 09/06/2017 23:43 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000367 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Dibromomethane | U | | 0.000409 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000763 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000283 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| cis-1,2-Dichloroethene | 0.0119 | | 0.000251 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000282 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000280 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000832 | 0.00267 | 1 | 08/31/2017 21:42 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000298 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| Di-isopropyl ether | U | | 0.000265 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000366 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |
| n-Hexane | 0.00184 | J J0 | 0.000310 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00501 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Methylene Chloride | U | J0 | 0.00107 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Naphthalene | U | | 0.00107 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000282 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000390 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000390 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Tetrachloroethene | 0.0105 | | 0.000295 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Toluene | U | | 0.000464 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000415 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000296 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Trichloroethene | 0.00316 | | 0.000298 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000409 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000792 | 0.00267 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000307 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000284 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Vinyl chloride | 0.00656 | | 0.000311 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Xylenes, Total | U | | 0.000746 | 0.00321 | 1 | 08/31/2017 21:42 | WG1015700 |
| *(S) Toluene-d8* | *94.5* | | | *80.0-120* | | *09/06/2017 23:43* | WG1015700 |
| *(S) Toluene-d8* | *99.6* | | | *80.0-120* | | *08/31/2017 21:42* | WG1015700 |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* | | *09/06/2017 23:43* | WG1015700 |
| *(S) Dibromofluoromethane* | *94.9* | | | *74.0-131* | | *08/31/2017 21:42* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *89.8* | | | *64.0-132* | | *08/31/2017 21:42* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/06/2017 23:43* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.9 | | 1 | 09/06/2017 10:08 | WG1017021 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.893 | 2.63 | 25 | 09/08/2017 13:52 | WG1017991 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.8* | | | *77.0-120* | | *09/08/2017 13:52* | WG1017991 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0105 | 0.0527 | 1 | 08/31/2017 22:03 | WG1015700 |
| Acrylonitrile | U | | 0.00189 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Benzene | U | | 0.000284 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Bromobenzene | U | | 0.000299 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Bromodichloromethane | U | | 0.000268 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Bromochloromethane | U | | 0.000411 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| Bromoform | U | | 0.000447 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Bromomethane | U | | 0.00141 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| n-Butylbenzene | U | | 0.000272 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| sec-Butylbenzene | U | | 0.000212 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| tert-Butylbenzene | U | | 0.000217 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Carbon disulfide | 0.000563 | J | 0.000233 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Carbon tetrachloride | U | | 0.000346 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| Chlorobenzene | U | | 0.000223 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Chlorodibromomethane | U | | 0.000393 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Chloroethane | U | | 0.000997 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| Chloroform | U | | 0.000241 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| Chloromethane | 0.00171 | J | 0.000395 | 0.00263 | 1 | 09/07/2017 00:09 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000317 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000253 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000361 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Dibromomethane | U | | 0.000402 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000321 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000252 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000238 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000751 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000210 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000279 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1-Dichloroethene | 0.000521 | J | 0.000319 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| cis-1,2-Dichloroethene | 0.0725 | | 0.000248 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000278 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000377 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000334 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000218 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000276 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000281 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000820 | 0.00263 | 1 | 08/31/2017 22:03 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000294 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| Di-isopropyl ether | U | | 0.000261 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| Ethylbenzene | U | | 0.000313 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000360 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 2-Hexanone | U | | 0.00144 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |
| n-Hexane | 0.00103 | J J0 | 0.000305 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00267 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Isopropylbenzene | U | | 0.000256 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000215 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00493 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Methylene Chloride | U | J0 | 0.00105 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00198 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000223 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Naphthalene | U | | 0.00105 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| n-Propylbenzene | U | | 0.000217 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Styrene | U | | 0.000247 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000278 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000385 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000385 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Tetrachloroethene | 0.0407 | | 0.000291 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Toluene | U | | 0.000457 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000322 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000409 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000301 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000292 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Trichloroethene | 0.0132 | | 0.000294 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000402 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000781 | 0.00263 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000222 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000302 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000280 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Vinyl acetate | U | | 0.00252 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Vinyl chloride | 0.0143 | | 0.000307 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Xylenes, Total | U | | 0.000735 | 0.00316 | 1 | 08/31/2017 22:03 | WG1015700 |
| *(S) Toluene-d8* | *94.1* | | | *80.0-120* | | *09/07/2017 00:09* | WG1015700 |
| *(S) Toluene-d8* | *99.9* | | | *80.0-120* | | *08/31/2017 22:03* | WG1015700 |
| *(S) Dibromofluoromethane* | *115* | | | *74.0-131* | | *09/07/2017 00:09* | WG1015700 |
| *(S) Dibromofluoromethane* | *97.2* | | | *74.0-131* | | *08/31/2017 22:03* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/07/2017 00:09* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *90.8* | | | *64.0-132* | | *08/31/2017 22:03* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 78.7 | | 1 | 09/06/2017 10:08 | WG1017021 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 1.08 | 3.17 | 25 | 09/08/2017 14:15 | WG1017991 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.2* | | | *77.0-120* | | *09/08/2017 14:15* | WG1017991 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0127 | 0.0635 | 1 | 08/31/2017 22:23 | WG1015700 |
| Acrylonitrile | U | | 0.00227 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Benzene | U | | 0.000343 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Bromobenzene | U | | 0.000361 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Bromodichloromethane | U | | 0.000323 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Bromochloromethane | U | | 0.000495 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| Bromoform | U | | 0.000538 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Bromomethane | U | | 0.00170 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| n-Butylbenzene | U | | 0.000328 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| sec-Butylbenzene | U | | 0.000255 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| tert-Butylbenzene | U | | 0.000262 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Carbon disulfide | 0.000666 | J | 0.000281 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Carbon tetrachloride | U | | 0.0104 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| Chlorobenzene | U | | 0.000269 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Chlorodibromomethane | U | | 0.000474 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Chloroethane | U | | 0.00120 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| Chloroform | U | | 0.000291 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| Chloromethane | U | J0 | 0.0119 | 0.0794 | 25 | 09/07/2017 12:58 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000382 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000305 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00133 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000436 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Dibromomethane | U | | 0.000485 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000387 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000304 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000287 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000905 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000253 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000337 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000385 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.00747 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.00838 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000455 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000403 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000263 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000333 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000339 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000988 | 0.00317 | 1 | 08/31/2017 22:23 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.00886 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| Di-isopropyl ether | U | J0 | 0.00787 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| Ethylbenzene | U | | 0.000377 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000434 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 2-Hexanone | U | | 0.00174 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |
| n-Hexane | 0.00494 | J J0 | 0.000368 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00321 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Isopropylbenzene | U | | 0.000309 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000259 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00594 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Methylene Chloride | U | J0 | 0.00127 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00239 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000269 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Naphthalene | U | | 0.00127 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| n-Propylbenzene | U | | 0.000262 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Styrene | U | | 0.000297 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000335 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000464 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000464 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Tetrachloroethene | 0.000676 | J | 0.000350 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Toluene | U | | 0.000551 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000389 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000493 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.00908 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000352 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Trichloroethene | U | | 0.000354 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000485 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000941 | 0.00317 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.00671 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.00912 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000338 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Vinyl acetate | U | | 0.00304 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Vinyl chloride | U | | 0.000370 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Xylenes, Total | U | | 0.000886 | 0.00381 | 1 | 08/31/2017 22:23 | WG1015700 |
| *(S) Toluene-d8* | *100* | | | *80.0-120* | | *08/31/2017 22:23* | WG1015700 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/07/2017 12:58* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.5* | | | *74.0-131* | | *09/07/2017 12:58* | WG1015700 |
| *(S) Dibromofluoromethane* | *93.6* | | | *74.0-131* | | *08/31/2017 22:23* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *92.2* | | | *64.0-132* | | *08/31/2017 22:23* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/07/2017 12:58* | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 1.91 | J | 1.05 | 25.0 | 1 | 08/31/2017 00:26 | WG1015444 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 08/31/2017 00:26 | WG1015444 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 08/31/2017 00:26 | WG1015444 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Styrene | U | | 0.117 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Toluene | U | | 0.412 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *08/31/2017 00:26* | WG1015444 |
| *(S) Dibromofluoromethane* | *106* | | | *76.0-123* | | *08/31/2017 00:26* | WG1015444 |
| *(S) 4-Bromofluorobenzene* | *97.0* | | | *80.0-120* | | *08/31/2017 00:26* | WG1015444 |

## Method Blank (MB)

(MB) R3247384-1 09/06/17 13:33

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00140 | | | |

## L932876-01 Original Sample (OS) • Duplicate (DUP)

(OS) L932876-01 09/06/17 13:33 • (DUP) R3247384-3 09/06/17 13:33

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 92.1 | 91.2 | 1 | 0.999 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3247384-2 09/06/17 13:33

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3247368-1 09/06/17 10:08

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L932876-11 Original Sample (OS) • Duplicate (DUP)

(OS) L932876-11 09/06/17 10:08 • (DUP) R3247368-3 09/06/17 10:08

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 78.4 | 76.7 | 1 | 2.20 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3247368-2 09/06/17 10:08

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3248022-1 09/08/17 13:40

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000200 | | | |

## L934680-29 Original Sample (OS) • Duplicate (DUP)

(OS) L934680-29 09/08/17 13:40 • (DUP) R3248022-3 09/08/17 13:40

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 76.7 | 76.2 | 1 | 0.541 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3248022-2 09/08/17 13:40

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3246008-3 08/31/17 10:50

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246008-1 08/31/17 09:43 • (LCSD) R3246008-2 08/31/17 10:06

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | 5.46 | 5.53 | 99.4 | 100 | 70.0-133 | | | 1.13 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *113* | *115* | *77.0-120* | | | | |

## L932906-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932906-01 08/31/17 17:44 • (MS) R3246008-4 08/31/17 18:06 • (MSD) R3246008-5 08/31/17 18:28

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 6.59 | ND | 210 | 210 | 127 | 128 | 25 | 10.0-146 | | | 0.0400 | 30 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *117* | *116* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3247915-3 09/08/17 11:34

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C6 - C12 | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.1* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247915-1 09/08/17 10:27 • (LCSD) R3247915-2 09/08/17 10:49

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C6 - C12 | 5.50 | 5.88 | 5.87 | 107 | 107 | 70.0-133 | | | 0.250 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *105* | *106* | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3246610-3 08/30/17 23:10

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3246610-3 08/30/17 23:10

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *97.5* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246610-1 08/30/17 22:12 • (LCSD) R3246610-2 08/30/17 22:31

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 126 | 105 | 101 | 83.6 | 10.0-160 | | | 18.6 | 23 |
| Acrylonitrile | 125 | 144 | 141 | 115 | 113 | 60.0-142 | | | 2.07 | 20 |
| Benzene | 25.0 | 26.0 | 26.0 | 104 | 104 | 69.0-123 | | | 0.0800 | 20 |
| Bromobenzene | 25.0 | 24.6 | 24.8 | 98.4 | 99.1 | 79.0-120 | | | 0.710 | 20 |
| Bromodichloromethane | 25.0 | 27.0 | 26.7 | 108 | 107 | 76.0-120 | | | 1.34 | 20 |
| Bromochloromethane | 25.0 | 26.7 | 26.4 | 107 | 106 | 76.0-122 | | | 1.09 | 20 |
| Bromoform | 25.0 | 25.4 | 26.1 | 102 | 104 | 67.0-132 | | | 2.54 | 20 |
| Bromomethane | 25.0 | 26.1 | 25.1 | 105 | 100 | 18.0-160 | | | 4.01 | 20 |
| n-Butylbenzene | 25.0 | 24.3 | 24.0 | 97.0 | 96.1 | 72.0-126 | | | 0.950 | 20 |
| sec-Butylbenzene | 25.0 | 25.2 | 24.6 | 101 | 98.2 | 74.0-121 | | | 2.37 | 20 |
| tert-Butylbenzene | 25.0 | 25.9 | 24.8 | 103 | 99.2 | 75.0-122 | | | 4.17 | 20 |
| Carbon disulfide | 25.0 | 26.8 | 26.5 | 107 | 106 | 55.0-127 | | | 1.24 | 20 |
| Carbon tetrachloride | 25.0 | 24.5 | 24.7 | 97.8 | 98.9 | 63.0-122 | | | 1.09 | 20 |
| Chlorobenzene | 25.0 | 26.3 | 25.7 | 105 | 103 | 79.0-121 | | | 2.09 | 20 |
| Chlorodibromomethane | 25.0 | 26.6 | 25.5 | 106 | 102 | 75.0-125 | | | 4.04 | 20 |
| Chloroethane | 25.0 | 27.5 | 26.2 | 110 | 105 | 47.0-152 | | | 5.12 | 20 |
| Chloroform | 25.0 | 26.4 | 26.3 | 106 | 105 | 72.0-121 | | | 0.600 | 20 |
| Chloromethane | 25.0 | 29.0 | 26.6 | 116 | 106 | 48.0-139 | | | 8.42 | 20 |
| 2-Chlorotoluene | 25.0 | 26.0 | 25.6 | 104 | 102 | 74.0-122 | | | 1.60 | 20 |
| 4-Chlorotoluene | 25.0 | 25.6 | 25.9 | 102 | 104 | 79.0-120 | | | 1.27 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 26.2 | 24.4 | 105 | 97.5 | 64.0-127 | | | 7.17 | 20 |
| 1,2-Dibromoethane | 25.0 | 25.0 | 24.9 | 100 | 99.6 | 77.0-123 | | | 0.500 | 20 |
| Dibromomethane | 25.0 | 28.0 | 28.0 | 112 | 112 | 78.0-120 | | | 0.0700 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 26.7 | 26.1 | 107 | 105 | 80.0-120 | | | 2.23 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 25.9 | 25.7 | 104 | 103 | 72.0-123 | | | 0.780 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 25.9 | 25.5 | 103 | 102 | 77.0-120 | | | 1.59 | 20 |
| Dichlorodifluoromethane | 25.0 | 26.9 | 27.3 | 108 | 109 | 49.0-155 | | | 1.44 | 20 |
| 1,1-Dichloroethane | 25.0 | 27.4 | 27.3 | 110 | 109 | 70.0-126 | | | 0.330 | 20 |
| 1,2-Dichloroethane | 25.0 | 26.8 | 26.8 | 107 | 107 | 67.0-126 | | | 0.0700 | 20 |
| 1,1-Dichloroethene | 25.0 | 27.2 | 26.6 | 109 | 106 | 64.0-129 | | | 2.20 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 26.9 | 26.9 | 108 | 108 | 73.0-120 | | | 0.150 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 26.6 | 26.4 | 107 | 106 | 71.0-121 | | | 0.830 | 20 |
| 1,2-Dichloropropane | 25.0 | 28.0 | 27.6 | 112 | 110 | 75.0-125 | | | 1.62 | 20 |
| 1,1-Dichloropropene | 25.0 | 26.9 | 26.7 | 108 | 107 | 71.0-129 | | | 0.730 | 20 |
| 1,3-Dichloropropane | 25.0 | 26.0 | 25.4 | 104 | 101 | 80.0-121 | | | 2.56 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 28.5 | 28.0 | 114 | 112 | 79.0-123 | | | 1.66 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 26.3 | 26.3 | 105 | 105 | 74.0-127 | | | 0.190 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 28.7 | 29.5 | 115 | 118 | 55.0-134 | | | 2.94 | 20 |
| 2,2-Dichloropropane | 25.0 | 27.7 | 25.9 | 111 | 103 | 60.0-125 | | | 6.65 | 20 |
| Di-isopropyl ether | 25.0 | 27.4 | 26.7 | 110 | 107 | 59.0-133 | | | 2.84 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246610-1 08/30/17 22:12 • (LCSD) R3246610-2 08/30/17 22:31

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 25.4 | 25.0 | 101 | 99.9 | 77.0-120 | | | 1.53 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 22.2 | 23.2 | 88.7 | 92.6 | 64.0-131 | | | 4.30 | 20 |
| 2-Hexanone | 125 | 131 | 128 | 105 | 102 | 58.0-147 | | | 2.63 | 20 |
| n-Hexane | 25.0 | 23.4 | 23.5 | 93.4 | 93.9 | 56.0-124 | | | 0.510 | 20 |
| Iodomethane | 125 | 143 | 140 | 115 | 112 | 57.0-140 | | | 2.21 | 20 |
| Isopropylbenzene | 25.0 | 25.3 | 25.0 | 101 | 100 | 75.0-120 | | | 1.10 | 20 |
| p-Isopropyltoluene | 25.0 | 25.9 | 25.3 | 104 | 101 | 74.0-126 | | | 2.51 | 20 |
| 2-Butanone (MEK) | 125 | 125 | 118 | 100 | 94.1 | 37.0-158 | | | 6.22 | 20 |
| Methylene Chloride | 25.0 | 26.3 | 26.2 | 105 | 105 | 66.0-121 | | | 0.390 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 137 | 128 | 109 | 103 | 59.0-143 | | | 6.22 | 20 |
| Methyl tert-butyl ether | 25.0 | 26.9 | 26.1 | 107 | 104 | 64.0-123 | | | 2.96 | 20 |
| Naphthalene | 25.0 | 23.4 | 22.6 | 93.7 | 90.3 | 62.0-128 | | | 3.65 | 20 |
| n-Propylbenzene | 25.0 | 25.4 | 25.6 | 102 | 102 | 79.0-120 | | | 0.700 | 20 |
| Styrene | 25.0 | 26.7 | 26.7 | 107 | 107 | 78.0-124 | | | 0.330 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 27.3 | 25.9 | 109 | 104 | 75.0-122 | | | 5.33 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 24.8 | 24.2 | 99.0 | 96.6 | 71.0-122 | | | 2.47 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 25.4 | 25.8 | 102 | 103 | 61.0-136 | | | 1.63 | 20 |
| Tetrachloroethene | 25.0 | 25.1 | 24.4 | 100 | 97.6 | 70.0-127 | | | 2.75 | 20 |
| Toluene | 25.0 | 24.6 | 24.2 | 98.3 | 96.7 | 77.0-120 | | | 1.61 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 24.1 | 24.8 | 96.6 | 99.4 | 61.0-133 | | | 2.85 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 25.9 | 25.2 | 103 | 101 | 69.0-129 | | | 2.41 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 26.7 | 26.0 | 107 | 104 | 68.0-122 | | | 2.70 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 25.5 | 25.1 | 102 | 100 | 78.0-120 | | | 1.52 | 20 |
| Trichloroethene | 25.0 | 26.7 | 26.5 | 107 | 106 | 78.0-120 | | | 0.960 | 20 |
| Trichlorofluoromethane | 25.0 | 26.9 | 26.4 | 107 | 106 | 56.0-137 | | | 1.71 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 25.7 | 25.2 | 103 | 101 | 72.0-124 | | | 1.74 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 26.5 | 25.3 | 106 | 101 | 75.0-120 | | | 4.64 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 25.7 | 24.7 | 103 | 98.9 | 75.0-120 | | | 3.71 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 25.4 | 24.7 | 102 | 98.7 | 75.0-120 | | | 2.79 | 20 |
| Vinyl acetate | 125 | 165 | 160 | 132 | 128 | 46.0-160 | | | 3.11 | 20 |
| Vinyl chloride | 25.0 | 25.8 | 25.8 | 103 | 103 | 64.0-133 | | | 0.0100 | 20 |
| Xylenes, Total | 75.0 | 78.6 | 76.1 | 105 | 101 | 77.0-120 | | | 3.23 | 20 |
| *(S) Toluene-d8* | | | | *103* | *102* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *103* | *104* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *94.7* | *96.9* | *80.0-120* | | | | |

## Method Blank (MB)

(MB) R3247190-3 08/31/17 14:15

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |

## Method Blank (MB)

(MB) R3247190-3 08/31/17 14:15

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *92.3* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *91.2* | | | *64.0-132* |

## Method Blank (MB)

(MB) R3247406-3 09/06/17 17:16

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |

## Method Blank (MB)

(MB) R3247406-3 09/06/17 17:16

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247190-1 08/31/17 12:12 • (LCSD) R3247190-2 08/31/17 12:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0762 | 0.0760 | 60.9 | 60.8 | 11.0-160 | | | 0.280 | 23 |
| Acrylonitrile | 0.125 | 0.0916 | 0.0928 | 73.3 | 74.2 | 61.0-143 | | | 1.29 | 20 |
| Benzene | 0.0250 | 0.0207 | 0.0208 | 83.0 | 83.2 | 71.0-124 | | | 0.300 | 20 |
| Bromobenzene | 0.0250 | 0.0199 | 0.0197 | 79.6 | 78.8 | 78.0-120 | | | 1.00 | 20 |
| Bromodichloromethane | 0.0250 | 0.0211 | 0.0209 | 84.5 | 83.5 | 75.0-120 | | | 1.19 | 20 |
| Bromoform | 0.0250 | 0.0237 | 0.0213 | 94.8 | 85.0 | 65.0-133 | | | 10.9 | 20 |
| Bromochloromethane | 0.0250 | 0.0222 | 0.0220 | 88.7 | 87.8 | 80.0-121 | | | 0.980 | 20 |
| Bromomethane | 0.0250 | 0.0227 | 0.0235 | 90.8 | 93.9 | 26.0-160 | | | 3.41 | 20 |
| n-Butylbenzene | 0.0250 | 0.0201 | 0.0201 | 80.3 | 80.3 | 73.0-126 | | | 0.0200 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0205 | 0.0203 | 82.2 | 81.4 | 75.0-121 | | | 1.01 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0210 | 0.0209 | 84.1 | 83.5 | 74.0-122 | | | 0.690 | 20 |
| Carbon disulfide | 0.0250 | 0.0216 | 0.0225 | 86.5 | 89.9 | 53.0-130 | | | 3.89 | 20 |
| Chlorobenzene | 0.0250 | 0.0248 | 0.0246 | 99.4 | 98.4 | 79.0-121 | | | 0.950 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0237 | 0.0237 | 94.7 | 94.8 | 74.0-128 | | | 0.190 | 20 |
| Chloroethane | 0.0250 | 0.0224 | 0.0231 | 89.7 | 92.4 | 51.0-147 | | | 2.95 | 20 |
| Chloroform | 0.0250 | 0.0202 | 0.0204 | 80.7 | 81.5 | 73.0-123 | | | 0.980 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0206 | 0.0205 | 82.6 | 82.1 | 72.0-124 | | | 0.580 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0202 | 0.0196 | 80.9 | 78.6 | 78.0-120 | | | 2.97 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0233 | 0.0216 | 93.1 | 86.5 | 65.0-126 | | | 7.32 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0245 | 0.0235 | 98.1 | 94.0 | 78.0-122 | | | 4.25 | 20 |
| Dibromomethane | 0.0250 | 0.0228 | 0.0213 | 91.1 | 85.2 | 79.0-120 | | | 6.72 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0226 | 0.0225 | 90.3 | 90.0 | 80.0-120 | | | 0.270 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0226 | 0.0224 | 90.3 | 89.7 | 72.0-123 | | | 0.670 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0211 | 0.0212 | 84.4 | 84.7 | 77.0-120 | | | 0.340 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0228 | 0.0231 | 91.2 | 92.4 | 49.0-155 | | | 1.27 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0197 | 0.0199 | 79.0 | 79.8 | 68.0-126 | | | 1.01 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0203 | 0.0208 | 81.1 | 83.2 | 70.0-128 | | | 2.61 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0213 | 0.0207 | 85.0 | 82.7 | 69.0-128 | | | 2.70 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247190-1 08/31/17 12:12 • (LCSD) R3247190-2 08/31/17 12:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.0250 | 0.0217 | 0.0226 | 86.8 | 90.5 | 63.0-131 | | | 4.19 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0219 | 0.0219 | 87.5 | 87.6 | 75.0-126 | | | 0.110 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0201 | 0.0202 | 80.5 | 80.7 | 72.0-130 | | | 0.230 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0247 | 0.0242 | 98.8 | 96.7 | 80.0-121 | | | 2.10 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0257 | 0.0252 | 103 | 101 | 80.0-125 | | | 1.68 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0264 | 0.0253 | 106 | 101 | 75.0-129 | | | 4.27 | 20 |
| Ethylbenzene | 0.0250 | 0.0226 | 0.0228 | 90.5 | 91.2 | 77.0-120 | | | 0.680 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0214 | 0.0209 | 85.5 | 83.5 | 68.0-128 | | | 2.40 | 20 |
| 2-Hexanone | 0.125 | 0.122 | 0.111 | 97.9 | 88.7 | 61.0-143 | | | 9.86 | 20 |
| Isopropylbenzene | 0.0250 | 0.0202 | 0.0202 | 80.7 | 80.8 | 75.0-120 | | | 0.140 | 20 |
| n-Hexane | 0.0250 | 0.0181 | 0.0181 | 72.4 | 72.5 | 57.0-125 | | | 0.0700 | 20 |
| Iodomethane | 0.125 | 0.120 | 0.131 | 95.6 | 105 | 67.0-132 | | | 9.00 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0212 | 0.0213 | 84.6 | 85.3 | 74.0-125 | | | 0.780 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.102 | 0.0965 | 81.3 | 77.2 | 37.0-159 | | | 5.21 | 20 |
| Methylene Chloride | 0.0250 | 0.0196 | 0.0195 | 78.3 | 78.0 | 67.0-123 | | | 0.350 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.114 | 0.106 | 91.0 | 84.4 | 60.0-144 | | | 7.46 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0201 | 0.0199 | 80.3 | 79.7 | 66.0-125 | | | 0.750 | 20 |
| Naphthalene | 0.0250 | 0.0213 | 0.0201 | 85.3 | 80.2 | 64.0-125 | | | 6.13 | 20 |
| n-Propylbenzene | 0.0250 | 0.0205 | 0.0206 | 82.1 | 82.4 | 78.0-120 | | | 0.360 | 20 |
| Styrene | 0.0250 | 0.0219 | 0.0212 | 87.5 | 84.7 | 78.0-124 | | | 3.30 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0232 | 0.0229 | 92.6 | 91.8 | 74.0-124 | | | 0.920 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0215 | 0.0201 | 85.8 | 80.3 | 73.0-120 | | | 6.63 | 20 |
| Tetrachloroethene | 0.0250 | 0.0254 | 0.0264 | 102 | 106 | 70.0-127 | | | 3.99 | 20 |
| Toluene | 0.0250 | 0.0226 | 0.0220 | 90.5 | 87.9 | 77.0-120 | | | 2.87 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0226 | 0.0228 | 90.3 | 91.0 | 64.0-135 | | | 0.830 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0223 | 0.0213 | 89.0 | 85.0 | 68.0-126 | | | 4.60 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0222 | 0.0218 | 88.8 | 87.1 | 70.0-127 | | | 1.99 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0236 | 0.0226 | 94.5 | 90.3 | 78.0-120 | | | 4.50 | 20 |
| Trichloroethene | 0.0250 | 0.0231 | 0.0233 | 92.4 | 93.0 | 79.0-120 | | | 0.650 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0260 | 0.0266 | 104 | 106 | 59.0-136 | | | 2.23 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0220 | 0.0200 | 88.1 | 80.2 | 73.0-124 | | | 9.48 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0203 | 0.0202 | 81.0 | 80.6 | 75.0-120 | | | 0.520 | 20 |
| Vinyl chloride | 0.0250 | 0.0250 | 0.0273 | 100 | 109 | 63.0-134 | | | 8.78 | 20 |
| Xylenes, Total | 0.0750 | 0.0672 | 0.0661 | 89.6 | 88.1 | 77.0-120 | | | 1.65 | 20 |
| Vinyl acetate | 0.125 | 0.103 | 0.100 | 82.4 | 80.3 | 58.0-156 | | | 2.47 | 20 |
| *(S) Toluene-d8* | | | | *107* | *106* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *92.2* | *91.5* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *89.8* | *88.8* | *64.0-132* | | | | |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247406-1 09/06/17 14:14 • (LCSD) R3247406-2 09/06/17 14:40

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 0.0250 | 0.0238 | 0.0237 | 95.2 | 94.8 | 66.0-123 | | | 0.410 | 20 |
| Chloromethane | 0.0250 | 0.0229 | 0.0225 | 91.6 | 90.1 | 51.0-138 | | | 1.60 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0245 | 0.0242 | 98.0 | 97.0 | 74.0-123 | | | 1.01 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0250 | 0.0245 | 99.9 | 98.1 | 72.0-122 | | | 1.84 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0232 | 0.0243 | 93.0 | 97.2 | 60.0-129 | | | 4.45 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0240 | 0.0237 | 96.0 | 95.0 | 62.0-133 | | | 1.13 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0249 | 0.0246 | 99.5 | 98.6 | 69.0-125 | | | 0.890 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0248 | 0.0245 | 99.3 | 98.1 | 76.0-120 | | | 1.20 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0266 | 0.0261 | 106 | 105 | 75.0-120 | | | 1.77 | 20 |

## L932832-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932832-01 09/07/17 13:57 • (MS) R3247585-1 09/07/17 14:17 • (MSD) R3247585-2 09/07/17 14:37

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | ND | 11.5 | 9.85 | 92.2 | 78.8 | 100 | 10.0-160 | | | 15.7 | 36 |
| Acrylonitrile | 0.125 | ND | 15.9 | 14.2 | 127 | 114 | 100 | 14.0-160 | | | 11.0 | 33 |
| Benzene | 0.0250 | 0.220 | 1.42 | 1.25 | 48.0 | 41.2 | 100 | 13.0-146 | | | 12.7 | 27 |
| Bromobenzene | 0.0250 | ND | 1.73 | 1.26 | 69.1 | 50.3 | 100 | 10.0-149 | | | 31.7 | 33 |
| Bromodichloromethane | 0.0250 | ND | 1.90 | 1.71 | 76.1 | 68.3 | 100 | 15.0-142 | | | 10.8 | 28 |
| Bromoform | 0.0250 | ND | 2.40 | 1.93 | 96.0 | 77.2 | 100 | 10.0-147 | | | 21.7 | 31 |
| Bromomethane | 0.0250 | ND | 0.380 | 0.330 | 15.2 | 13.2 | 100 | 10.0-160 | | | 14.0 | 32 |
| Bromochloromethane | 0.0250 | ND | 1.97 | 1.68 | 78.9 | 67.2 | 100 | 24.0-146 | | | 16.0 | 27 |
| n-Butylbenzene | 0.0250 | ND | 1.29 | 0.936 | 50.4 | 36.3 | 100 | 10.0-154 | | | 31.6 | 37 |
| sec-Butylbenzene | 0.0250 | ND | 1.49 | 1.09 | 59.8 | 43.6 | 100 | 10.0-151 | | | 31.3 | 36 |
| tert-Butylbenzene | 0.0250 | ND | 1.70 | 1.20 | 67.9 | 48.0 | 100 | 10.0-152 | | | 34.4 | 35 |
| Carbon tetrachloride | 0.0250 | ND | 1.36 | 1.23 | 54.5 | 49.1 | 100 | 13.0-140 | | | 10.4 | 30 |
| Chlorobenzene | 0.0250 | ND | 1.71 | 1.36 | 68.4 | 54.3 | 100 | 10.0-149 | | | 23.0 | 31 |
| Chlorodibromomethane | 0.0250 | ND | 2.29 | 1.94 | 91.5 | 77.6 | 100 | 12.0-147 | | | 16.4 | 29 |
| Carbon disulfide | 0.0250 | ND | 0.110 | 0.118 | 4.41 | 4.70 | 100 | 10.0-141 | J6 | J6 | 6.37 | 30 |
| Chloroethane | 0.0250 | ND | 0.771 | 0.651 | 30.8 | 26.0 | 100 | 10.0-159 | | | 16.8 | 33 |
| Chloroform | 0.0250 | ND | 5.83 | 5.77 | 233 | 231 | 100 | 18.0-148 | J5 | J5 | 1.12 | 28 |
| Chloromethane | 0.0250 | ND | 0.340 | 0.292 | 12.1 | 10.2 | 100 | 10.0-146 | | | 15.2 | 29 |
| 2-Chlorotoluene | 0.0250 | ND | 1.72 | 1.20 | 68.7 | 47.9 | 100 | 10.0-151 | | J3 | 35.7 | 35 |
| 4-Chlorotoluene | 0.0250 | ND | 1.74 | 1.21 | 69.6 | 48.6 | 100 | 10.0-150 | | J3 | 35.6 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | ND | 2.26 | 1.68 | 90.6 | 67.2 | 100 | 10.0-149 | | | 29.7 | 34 |
| 1,2-Dibromoethane | 0.0250 | ND | 2.18 | 1.93 | 87.4 | 77.0 | 100 | 14.0-145 | | | 12.6 | 28 |
| Dibromomethane | 0.0250 | ND | 1.93 | 1.68 | 77.2 | 67.3 | 100 | 18.0-144 | | | 13.7 | 27 |
| 1,2-Dichlorobenzene | 0.0250 | ND | 1.72 | 1.20 | 68.9 | 47.8 | 100 | 10.0-153 | | J3 | 36.2 | 34 |

## L932832-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932832-01 09/07/17 13:57 • (MS) R3247585-1 09/07/17 14:17 • (MSD) R3247585-2 09/07/17 14:37

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 0.0250 | ND | 1.77 | 1.19 | 70.7 | 47.8 | 100 | 10.0-150 | | J3 | 38.7 | 35 |
| 1,4-Dichlorobenzene | 0.0250 | ND | 1.72 | 1.16 | 68.8 | 46.3 | 100 | 10.0-148 | | J3 | 39.2 | 34 |
| Dichlorodifluoromethane | 0.0250 | ND | 0.680 | 0.651 | 27.2 | 26.0 | 100 | 10.0-160 | | | 4.26 | 30 |
| 1,1-Dichloroethane | 0.0250 | ND | 1.74 | 1.51 | 69.7 | 60.4 | 100 | 19.0-148 | | | 14.4 | 28 |
| 1,2-Dichloroethane | 0.0250 | ND | 1.74 | 1.45 | 69.8 | 58.0 | 100 | 17.0-147 | | | 18.4 | 27 |
| trans-1,4-Dichloro-2-butene | 0.0250 | ND | 2.41 | 1.75 | 96.3 | 69.9 | 100 | 10.0-160 | | | 31.7 | 40 |
| 1,1-Dichloroethene | 0.0250 | ND | 1.21 | 1.09 | 48.5 | 43.5 | 100 | 10.0-150 | | | 10.9 | 31 |
| cis-1,2-Dichloroethene | 0.0250 | ND | 1.54 | 1.34 | 61.7 | 53.6 | 100 | 16.0-145 | | | 14.0 | 28 |
| trans-1,2-Dichloroethene | 0.0250 | ND | 0.903 | 0.818 | 36.1 | 32.7 | 100 | 11.0-142 | | | 9.84 | 29 |
| 1,2-Dichloropropane | 0.0250 | ND | 1.69 | 1.54 | 67.6 | 61.5 | 100 | 17.0-148 | | | 9.52 | 28 |
| 1,1-Dichloropropene | 0.0250 | ND | 1.04 | 0.941 | 41.5 | 37.6 | 100 | 10.0-150 | | | 9.66 | 30 |
| 1,3-Dichloropropane | 0.0250 | ND | 2.19 | 1.85 | 87.8 | 73.8 | 100 | 16.0-148 | | | 17.3 | 27 |
| cis-1,3-Dichloropropene | 0.0250 | ND | 1.81 | 1.58 | 72.4 | 63.1 | 100 | 13.0-150 | | | 13.8 | 28 |
| trans-1,3-Dichloropropene | 0.0250 | ND | 1.93 | 1.64 | 77.2 | 65.8 | 100 | 10.0-152 | | | 15.9 | 29 |
| 2,2-Dichloropropane | 0.0250 | ND | 1.71 | 1.52 | 68.4 | 60.6 | 100 | 16.0-143 | | | 12.1 | 30 |
| Di-isopropyl ether | 0.0250 | ND | 1.66 | 1.44 | 66.2 | 57.7 | 100 | 16.0-149 | | | 13.8 | 28 |
| Ethylbenzene | 0.0250 | ND | 1.59 | 1.25 | 60.1 | 46.2 | 100 | 10.0-147 | | | 24.5 | 31 |
| Hexachloro-1,3-butadiene | 0.0250 | ND | 0.626 | 0.599 | 25.0 | 23.9 | 100 | 10.0-154 | | | 4.45 | 40 |
| Isopropylbenzene | 0.0250 | ND | 1.85 | 1.35 | 74.2 | 53.9 | 100 | 10.0-147 | | | 31.6 | 33 |
| 2-Hexanone | 0.125 | ND | 14.2 | 12.2 | 114 | 97.4 | 100 | 12.0-158 | | | 15.7 | 30 |
| p-Isopropyltoluene | 0.0250 | ND | 1.51 | 1.07 | 60.6 | 42.9 | 100 | 10.0-156 | | | 34.2 | 37 |
| 2-Butanone (MEK) | 0.125 | ND | 17.8 | 16.6 | 143 | 133 | 100 | 10.0-160 | | | 7.32 | 33 |
| n-Hexane | 0.0250 | 6.60 | 5.94 | 6.11 | 0.000 | 0.000 | 100 | 10.0-140 | J6 | J6 | 2.75 | 34 |
| Iodomethane | 0.125 | ND | 5.75 | 4.90 | 46.0 | 39.2 | 100 | 10.0-157 | | | 15.9 | 34 |
| Methylene Chloride | 0.0250 | ND | 1.30 | 1.14 | 51.9 | 45.4 | 100 | 16.0-139 | | | 13.3 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 37.6 | 32.8 | 31.4 | 0.000 | 0.000 | 100 | 12.0-160 | J6 | J6 | 4.19 | 32 |
| Methyl tert-butyl ether | 0.0250 | ND | 2.06 | 1.80 | 82.3 | 72.1 | 100 | 21.0-145 | | | 13.2 | 29 |
| Naphthalene | 0.0250 | ND | 1.35 | 1.08 | 44.5 | 33.8 | 100 | 10.0-153 | | | 22.2 | 36 |
| n-Propylbenzene | 0.0250 | ND | 1.71 | 1.19 | 67.6 | 46.8 | 100 | 10.0-151 | | J3 | 35.8 | 34 |
| Styrene | 0.0250 | ND | 2.02 | 1.51 | 80.8 | 60.3 | 100 | 10.0-155 | | | 29.1 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | ND | 2.05 | 1.66 | 81.9 | 66.3 | 100 | 10.0-147 | | | 20.9 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | ND | 2.74 | 2.15 | 110 | 86.0 | 100 | 10.0-155 | | | 24.2 | 31 |
| Tetrachloroethene | 0.0250 | ND | 1.42 | 1.19 | 57.0 | 47.7 | 100 | 10.0-144 | | | 17.8 | 32 |
| Toluene | 0.0250 | ND | 1.54 | 1.30 | 58.5 | 49.2 | 100 | 10.0-144 | | | 16.4 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | ND | 1.68 | 1.80 | 67.0 | 71.8 | 100 | 10.0-153 | | | 6.91 | 33 |
| 1,2,3-Trichlorobenzene | 0.0250 | ND | 0.868 | 0.732 | 34.7 | 29.3 | 100 | 10.0-153 | | | 17.1 | 40 |
| 1,2,4-Trichlorobenzene | 0.0250 | ND | 1.07 | 0.806 | 42.9 | 32.3 | 100 | 10.0-156 | | | 28.3 | 40 |
| 1,1,1-Trichloroethane | 0.0250 | ND | 1.64 | 1.45 | 65.8 | 58.2 | 100 | 18.0-145 | | | 12.3 | 29 |
| 1,1,2-Trichloroethane | 0.0250 | ND | 2.51 | 2.12 | 100 | 84.9 | 100 | 12.0-151 | | | 16.7 | 28 |
| Trichloroethene | 0.0250 | ND | 1.50 | 1.32 | 59.9 | 52.7 | 100 | 11.0-148 | | | 12.7 | 29 |

## L932832-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L932832-01 09/07/17 13:57 • (MS) R3247585-1 09/07/17 14:17 • (MSD) R3247585-2 09/07/17 14:37

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichlorofluoromethane | 0.0250 | ND | 1.35 | 1.24 | 54.1 | 49.6 | 100 | 10.0-157 | | | 8.54 | 34 |
| 1,2,3-Trichloropropane | 0.0250 | ND | 3.17 | 2.55 | 127 | 102 | 100 | 10.0-154 | | | 21.9 | 32 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.105 | 1.60 | 1.11 | 59.8 | 40.4 | 100 | 10.0-150 | | J3 | 35.7 | 33 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.181 | 1.65 | 1.15 | 58.7 | 38.6 | 100 | 10.0-151 | | J3 | 36.0 | 34 |
| 1,3,5-Trimethylbenzene | 0.0250 | ND | 1.65 | 1.16 | 64.7 | 45.1 | 100 | 10.0-150 | | J3 | 34.9 | 33 |
| Vinyl chloride | 0.0250 | ND | 0.434 | 0.398 | 17.4 | 15.9 | 100 | 10.0-150 | | | 8.82 | 29 |
| Xylenes, Total | 0.0750 | 0.549 | 4.88 | 3.78 | 57.7 | 43.1 | 100 | 10.0-150 | | | 25.4 | 31 |
| Vinyl acetate | 0.125 | ND | 11.2 | 10.2 | 89.8 | 81.3 | 100 | 10.0-160 | | | 9.99 | 40 |
| *(S) Toluene-d8* | | | | | *107* | *105* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *99.2* | *96.9* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *110* | *110* | | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3247967-3 09/08/17 11:54

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3247967-3 09/08/17 11:54

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | 0.00106 | J | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *96.6* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247967-1 09/08/17 10:55 • (LCSD) R3247967-2 09/08/17 11:15

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.106 | 0.108 | 84.9 | 86.8 | 11.0-160 | | | 2.16 | 23 |
| Acrylonitrile | 0.125 | 0.112 | 0.107 | 89.2 | 85.5 | 61.0-143 | | | 4.23 | 20 |
| Benzene | 0.0250 | 0.0243 | 0.0239 | 97.3 | 95.6 | 71.0-124 | | | 1.70 | 20 |
| Bromobenzene | 0.0250 | 0.0211 | 0.0217 | 84.3 | 86.8 | 78.0-120 | | | 2.87 | 20 |
| Bromodichloromethane | 0.0250 | 0.0247 | 0.0234 | 98.8 | 93.7 | 75.0-120 | | | 5.27 | 20 |
| Bromochloromethane | 0.0250 | 0.0268 | 0.0267 | 107 | 107 | 80.0-121 | | | 0.130 | 20 |
| Bromoform | 0.0250 | 0.0229 | 0.0233 | 91.5 | 93.3 | 65.0-133 | | | 1.99 | 20 |
| Bromomethane | 0.0250 | 0.0257 | 0.0273 | 103 | 109 | 26.0-160 | | | 6.04 | 20 |
| n-Butylbenzene | 0.0250 | 0.0253 | 0.0261 | 101 | 104 | 73.0-126 | | | 3.05 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0251 | 0.0257 | 101 | 103 | 75.0-121 | | | 2.24 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0253 | 0.0258 | 101 | 103 | 74.0-122 | | | 1.97 | 20 |
| Carbon disulfide | 0.0250 | 0.0243 | 0.0210 | 97.3 | 84.0 | 53.0-130 | | | 14.6 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0246 | 0.0246 | 98.2 | 98.3 | 66.0-123 | | | 0.120 | 20 |
| Chlorobenzene | 0.0250 | 0.0272 | 0.0286 | 109 | 114 | 79.0-121 | | | 4.82 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0276 | 0.0282 | 110 | 113 | 74.0-128 | | | 2.33 | 20 |
| Chloroethane | 0.0250 | 0.0203 | 0.0216 | 81.4 | 86.5 | 51.0-147 | | | 6.08 | 20 |
| Chloroform | 0.0250 | 0.0251 | 0.0243 | 100 | 97.2 | 73.0-123 | | | 3.09 | 20 |
| Chloromethane | 0.0250 | 0.0196 | 0.0194 | 78.6 | 77.4 | 51.0-138 | | | 1.47 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0238 | 0.0247 | 95.4 | 98.7 | 72.0-124 | | | 3.44 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0235 | 0.0245 | 94.1 | 97.9 | 78.0-120 | | | 3.95 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0253 | 0.0250 | 101 | 100 | 65.0-126 | | | 1.00 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0171 | 0.0173 | 68.3 | 69.2 | 68.0-126 | | | 1.20 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0276 | 0.0286 | 110 | 114 | 78.0-122 | | | 3.74 | 20 |
| Dibromomethane | 0.0250 | 0.0273 | 0.0263 | 109 | 105 | 79.0-120 | | | 3.65 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0261 | 0.0274 | 104 | 110 | 80.0-120 | | | 4.97 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0266 | 0.0272 | 107 | 109 | 72.0-123 | | | 1.95 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0251 | 0.0261 | 100 | 105 | 77.0-120 | | | 4.00 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0245 | 0.0255 | 97.9 | 102 | 49.0-155 | | | 4.27 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0228 | 0.0224 | 91.0 | 89.6 | 70.0-128 | | | 1.56 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0240 | 0.0236 | 96.0 | 94.2 | 69.0-128 | | | 1.83 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0280 | 0.0256 | 112 | 102 | 63.0-131 | | | 9.13 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0250 | 0.0244 | 100 | 97.4 | 74.0-123 | | | 2.74 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0255 | 0.0253 | 102 | 101 | 72.0-122 | | | 0.660 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0224 | 0.0229 | 89.6 | 91.5 | 75.0-126 | | | 2.06 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0235 | 0.0238 | 94.1 | 95.2 | 72.0-130 | | | 1.13 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0254 | 0.0267 | 101 | 107 | 80.0-121 | | | 5.23 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0236 | 0.0251 | 94.3 | 101 | 80.0-125 | | | 6.39 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0242 | 0.0260 | 97.0 | 104 | 75.0-129 | | | 7.16 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0220 | 0.0223 | 87.9 | 89.4 | 60.0-129 | | | 1.63 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0196 | 0.0190 | 78.2 | 75.8 | 62.0-133 | | | 3.13 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247967-1 09/08/17 10:55 • (LCSD) R3247967-2 09/08/17 11:15

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0260 | 0.0273 | 104 | 109 | 77.0-120 | | | 4.59 | 20 |
| Iodomethane | 0.125 | 0.119 | 0.117 | 95.6 | 93.2 | 67.0-132 | | | 2.48 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0254 | 0.0262 | 102 | 105 | 68.0-128 | | | 3.23 | 20 |
| 2-Hexanone | 0.125 | 0.111 | 0.119 | 88.8 | 95.5 | 61.0-143 | | | 7.23 | 20 |
| n-Hexane | 0.0250 | 0.0207 | 0.0202 | 82.9 | 80.8 | 57.0-125 | | | 2.51 | 20 |
| Isopropylbenzene | 0.0250 | 0.0251 | 0.0254 | 100 | 102 | 75.0-120 | | | 1.26 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0255 | 0.0263 | 102 | 105 | 74.0-125 | | | 3.09 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.112 | 0.108 | 89.8 | 86.8 | 37.0-159 | | | 3.39 | 20 |
| Methylene Chloride | 0.0250 | 0.0244 | 0.0238 | 97.7 | 95.2 | 67.0-123 | | | 2.60 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.107 | 0.117 | 85.5 | 93.5 | 60.0-144 | | | 9.01 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0241 | 0.0234 | 96.6 | 93.6 | 66.0-125 | | | 3.06 | 20 |
| Naphthalene | 0.0250 | 0.0255 | 0.0275 | 102 | 110 | 64.0-125 | | | 7.60 | 20 |
| n-Propylbenzene | 0.0250 | 0.0243 | 0.0248 | 97.2 | 99.3 | 78.0-120 | | | 2.08 | 20 |
| Styrene | 0.0250 | 0.0248 | 0.0262 | 99.4 | 105 | 78.0-124 | | | 5.28 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0271 | 0.0279 | 109 | 112 | 74.0-124 | | | 2.72 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0249 | 0.0256 | 99.6 | 102 | 73.0-120 | | | 2.74 | 20 |
| Tetrachloroethene | 0.0250 | 0.0283 | 0.0299 | 113 | 120 | 70.0-127 | | | 5.63 | 20 |
| Toluene | 0.0250 | 0.0261 | 0.0273 | 104 | 109 | 77.0-120 | | | 4.49 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0277 | 0.0263 | 111 | 105 | 64.0-135 | | | 5.14 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0250 | 0.0269 | 99.9 | 107 | 68.0-126 | | | 7.25 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0250 | 0.0272 | 100 | 109 | 70.0-127 | | | 8.28 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0254 | 0.0255 | 102 | 102 | 69.0-125 | | | 0.360 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0269 | 0.0280 | 108 | 112 | 78.0-120 | | | 4.03 | 20 |
| Trichloroethene | 0.0250 | 0.0264 | 0.0257 | 105 | 103 | 79.0-120 | | | 2.35 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0275 | 0.0271 | 110 | 108 | 59.0-136 | | | 1.52 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0275 | 0.0276 | 110 | 111 | 73.0-124 | | | 0.640 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0230 | 0.0237 | 92.1 | 94.9 | 76.0-120 | | | 2.94 | 20 |
| Vinyl acetate | 0.125 | 0.108 | 0.106 | 86.7 | 84.6 | 58.0-156 | | | 2.40 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0235 | 0.0241 | 93.9 | 96.3 | 75.0-120 | | | 2.51 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0249 | 0.0257 | 99.6 | 103 | 75.0-120 | | | 3.23 | 20 |
| Vinyl chloride | 0.0250 | 0.0236 | 0.0233 | 94.5 | 93.4 | 63.0-134 | | | 1.18 | 20 |
| Xylenes, Total | 0.0750 | 0.0795 | 0.0846 | 106 | 113 | 77.0-120 | | | 6.22 | 20 |
| *(S) Toluene-d8* | | | | *103* | *107* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *100* | *97.4* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *90.9* | *92.2* | *64.0-132* | | | | |

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |

# ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.



## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

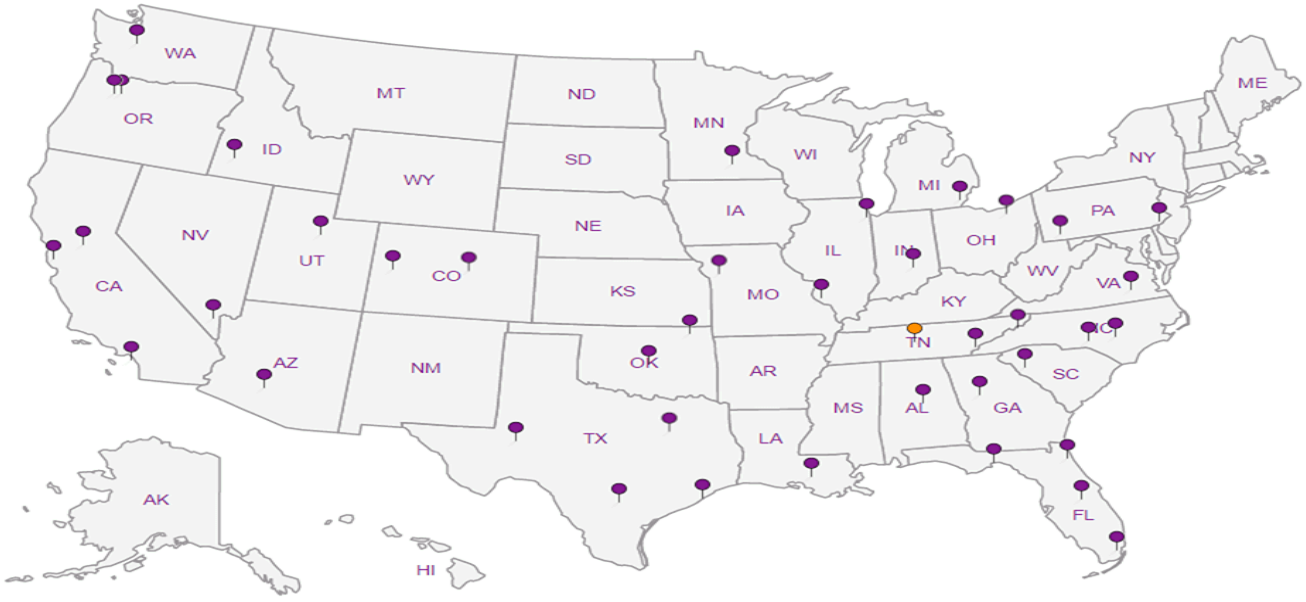
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to: **Bill Haldeman**

Email To: **bhaldeman@pesenv.com**

Project Description: **American Linen Project**

City/State Collected:

Phone: **206-529-3980**
Fax: **206-529-3985**

Client Project # 1413.001.02.602

Lab Project # **PESENVSWA-ALP**

Collected by (print): Karsten Springstead / HANNON McKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-219-80 | Grab | SS | 80 | 8/28/17 | 1610 | 4 | | | X | X | | | -01 |
| MW-136-50 | | SS | 50 | | 1605 | 4 | | | X | X | | | -02 |
| MW-136-65 | | SS | 65 | | 1730 | 4 | | | X | X | | | -03 |
| MW-134-20 | | ~~SS~~ GW | 20 | 8/29/17 | 850 | ~~5~~ 4 | X | | X | X | * | | -04 |
| MW-136-75 | | ~~SS~~ GW | 75 | | 830 | ~~5~~ 4 | | | X | X | * | | -05 |
| MW-136-85 | | ~~SS~~ GW | 85 | | 840 | ~~5~~ 4 | | | X | X | * | | -06 |
| MW-136-95 | | SS | 95 | | 915 | 4 | | | X | X | | | -07 |
| MW-134-40 | | SS | 40 | | 940 | 5 | X | | X | X | | HOLD | |
| MW-134-43 | | SS | 43 | | 1015 | 5 | X | | X | X | | | -08 |
| MW-134-50 | | SS | 50 | | 1020 | 5 | X | | X | X | | | -09 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7474 0921 0220

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCl / MeoH TBR |
|---|---|---|---|---|
| | 8/29/17 | 1645 | | 1X |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: 1.7 °C Bottles Received: 70 |
| | | | | If preservation required by Login: Date/Time |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 8/30/17 Time: 0845 |
| | | | Chi Ward | 8-193 |

Condition: NCF / OK

Chain of Custody Page 1 of 2

ESC LABORATORIES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L932876
D216

Acctnum: PESENVSWA
Template: T126584
Prelogin: P613271
TSR: 110 - Brian Ford
PB:

Shipped Via: FedEX Ground

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Chain of Custody Page 2 of 2

ESC LAB SCIENCES
a subsidiary of Pes Industrial
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected:

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

L# 932876

Table #

Collected by (print): Karsten Springsteed

Site/Facility ID # 1413.001.02.602

P.O. # 1413.001.02.602

Acctnum: PESENVSWA
Template: T126584
Prelogin: P613271
TSR: 110 - Brian Ford
PB:
Shipped Via: FedEX Ground

Collected by (signature): SHANNON MCKERNAN

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~B-~~ MW-134-60 | Grab | SS | 60 | 8/29/17 | 1120 | 5 | X | ~~X~~ | X | X | ~~X~~ | | -10 |
| ~~B-~~ MW-134-70 | ↓ | SS | 70 | ↓ | 1200 | 5 | X | ~~X~~ | X | X | ~~X~~ | | -11 |
| ~~B-~~ MW-134-80 | ↓ | SS | 80 | ↓ | 1400 | 5 | X | ~~X~~ | X | X | ~~X~~ | | -12 |
| ~~B-~~ ~~M~~ B-903-100 | ↓ | SS | 100 | | 1355 | 5 ~~4~~ | X | | X | X | | | -13 |
| ~~B-~~ MW-134-90 | ↓ | SS | 90 | | 1535 | 5 ~~4~~ | X | | X | X | | | -14 |
| ~~B-~~ BLANK-082917 | NA | NA ~~SS~~ | NA | 6/8/17 | NA | 1 ~~4~~ | | | ~~X~~ | ~~X~~ | X | | -15 |
| B- | | SS | | | | 4 | | | X | X | | | |
| B- | | SS | | | | 4 | | | X | X | | | |
| B- | | SS | | | | 4 | | | X | X | | | |
| B- | | SS | | | | 4 | | | X | X | | | |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| [signature] | 8/29/17 | 1645 | | 1X |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 1.7 °C Bottles Received: 70 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) [signature] | Date: 8/30/17 Time: 0845 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF OK

# MEMORANDUM

**TO:** Project File **DATE:** September 22, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** August 28-29, 2017 – Soil Samples

**LAB:** ESC Lab ID L932876

---

Fifteen (15) soil samples and a trip blank were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on August 28-29, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. One soil sample was placed on hold. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L932876. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in X# ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L934130, L934673, L934916, and). The quality assurance review of the sample data associated with SDG L932876 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on August 28-29, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 1.7 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. Holding time criteria were not met:

- Soil samples were collected on August 28-29, 2017 and measured for percent solids on September 6, 2017. This is slightly beyond the recommended seven day hold. No action is taken in this case as samples were appropriately preserved and it is unlikely that the holding time exceedances significantly impacted sample results.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, n-hexane, and methylene chloride associated with analytical batch WG1015700 (analyzed on August 31, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs) with the following exception:

- Analytical batch WG1018274: A low level of methylene chloride was detected below the reporting limit in the method blank analyzed on September 8, 2017. No action is taken as methylene chloride was not detected in the associated sample.

*NWTPH-Gx Method:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDL.

*Total Solids by SM 2540 G 2011:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (% solids) were not detected at a significant level in the method blank and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C and NWTPH-Gx:*
A trip blank was collected and submitted for analysis. The target analytes (VOCs) were not detected in the trip blank at or above the reported detection limits (RDLs) with the following exception:

- A low level of acetone was detected below the reporting limit in the trip blank. **All associated acetone detections are less than respective reporting limits and are qualified as not detected (U) due to trip blank contamination.**

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate (MW-134-80 and B-903-100) results are comparable and less than 30% RPD with the following exceptions:

- Field duplicate RPD results for cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride are greater than 30%. **Samples MW-134-80 and B-903-100 results for the above mentioned compounds are estimated and qualified (J).**

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to LCS/LCSDs or MS/MSDs results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on a non-client sample, and client samples B-219-80 and MW-134-70. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSD, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils.

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPDs for the control analyte (gasoline) are within the laboratory control criteria for soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on a non-client sample within one of the analytical batches. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for soils with the following exceptions:

- MS/MSD (Batch WG1015700) RPDs and % Rs are outside of laboratory criteria for multiple compounds. Since this spike was performed on a non-client sample within one of the analytical batches no action will be taken. Refer to LCS/LCSD results for accuracy and precision data.

*NWTPH-Gx Method:*
MS/MSDs were analyzed by the NWTPH-Gx method on a non-client sample within the analytical batches. The MS/MSD %Rs and RPDs for the control analyte (gasoline) are within the laboratory control criteria for soils.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Samples B-219-80 and MW-136-50 were not reanalyzed at a lower dilution as there were no low level sodium bisulfite vials remaining for these samples. No action was taken other than to note this.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.1 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0109 | 0.0543 | 1 | 08/31/2017 18:02 | WG1015700 |
| Acrylonitrile | U | | 0.00194 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Benzene | U | | 0.000293 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Bromobenzene | U | | 0.000308 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Bromochloromethane | U | | 0.000424 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| Bromoform | U | | 0.000461 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Bromomethane | U | | 0.00146 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| n-Butylbenzene | U | | 0.000280 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| sec-Butylbenzene | U | | 0.000218 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Carbon disulfide | 0.000358 J | J | 0.000240 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Carbon tetrachloride | U | | 0.00891 | 0.0272 | 25 | 09/06/2017 19:24 | WG1015700 |
| Chlorobenzene | U | | 0.000230 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Chlorodibromomethane | U | | 0.000405 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Chloroethane | U | | 0.00103 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| Chloroform | U | | 0.000249 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| Chloromethane | U | | 0.0102 | 0.0679 | 25 | 09/06/2017 19:24 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000327 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000373 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Dibromomethane | U | | 0.000415 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000245 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000774 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000329 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.00639 | 0.0272 | 25 | 09/06/2017 19:24 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.00717 | 0.0272 | 25 | 09/06/2017 19:24 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000389 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000344 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000845 | 0.00272 | 1 | 08/31/2017 18:02 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.00758 | 0.0272 | 25 | 09/06/2017 19:24 | WG1015700 |
| Di-isopropyl ether | U | | 0.00673 | 0.0272 | 25 | 09/06/2017 19:24 | WG1015700 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000371 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |
| n-Hexane | 0.00111 J | J J0 | 0.000315 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Isopropylbenzene | U | | 0.000264 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00508 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Methylene Chloride | U UJ | J0 | 0.00109 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000230 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Naphthalene | U | | 0.00109 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Styrene | U | | 0.000254 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000396 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000396 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Tetrachloroethene | U | | 0.000300 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Toluene | U | | 0.000471 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000421 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.00777 | 0.0272 | 25 | 09/06/2017 19:24 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000301 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Trichloroethene | U | | 0.000303 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000415 | 0.00543 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000805 | 0.00272 | 1 | 08/31/2017 18:02 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.00573 | 0.0272 | 25 | 09/07/2017 13:18 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.00780 | 0.0272 | 25 | 09/07/2017 13:18 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Vinyl chloride | U | | 0.000316 | 0.00109 | 1 | 08/31/2017 18:02 | WG1015700 |
| Xylenes, Total | U | | 0.000758 | 0.00326 | 1 | 08/31/2017 18:02 | WG1015700 |
| *(S) Toluene-d8* | *99.5* | | | *80.0-120* | | *08/31/2017 18:02* | WG1015700 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/07/2017 13:18* | WG1015700 |
| *(S) Toluene-d8* | *98.9* | | | *80.0-120* | | *09/06/2017 19:24* | WG1015700 |
| *(S) Dibromofluoromethane* | *96.0* | | | *74.0-131* | | *08/31/2017 18:02* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.1* | | | *74.0-131* | | *09/07/2017 13:18* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.5* | | | *74.0-131* | | *09/06/2017 19:24* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *87.6* | | | *64.0-132* | | *08/31/2017 18:02* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/06/2017 19:24* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *98.8* | | | *64.0-132* | | *09/07/2017 13:18* | WG1015700 |

Sample Narrative:

L932876-01 WG1015700: No low level sodium bisulfite vials remaining,

L932876-01 WG1015700: No low level sodium bisulfite vials remaining

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.9 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0403 U | J J0 | 0.0115 | 0.0575 | 1 | 08/31/2017 18:22 | WG1015700 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Benzene | U | | 0.000311 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Bromobenzene | U | | 0.000327 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Bromochloromethane | U | | 0.000449 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| Bromoform | U | | 0.000488 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Bromomethane | U | | 0.00154 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| n-Butylbenzene | U | | 0.000297 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| tert-Butylbenzene | U | | 0.000237 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Carbon disulfide | 0.00138 | | 0.000254 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Carbon tetrachloride | U | | 0.00944 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| Chlorobenzene | U | | 0.000244 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Chlorodibromomethane | U | | 0.000429 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Chloroethane | U | | 0.00109 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| Chloroform | U | | 0.000264 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| Chloromethane | U | | 0.0108 | 0.0719 | 25 | 09/06/2017 19:50 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000346 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000276 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000395 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Dibromomethane | U | | 0.000440 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000275 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000260 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000820 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000229 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000305 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000349 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.00677 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.00759 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000412 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000365 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000307 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000895 | 0.00288 | 1 | 08/31/2017 18:22 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.00803 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| Di-isopropyl ether | U | | 0.00713 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| Ethylbenzene | U | | 0.000342 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000394 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |
| n-Hexane | 0.000453 J | J J0 | 0.000334 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Iodomethane | U | | 0.00291 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 2-Butanone (MEK) | 0.0103 J | J | 0.00539 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Methylene Chloride | U UJ | J0 | 0.00115 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Naphthalene | U | | 0.00115 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000304 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000420 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000420 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Tetrachloroethene | U | | 0.000318 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Toluene | U | | 0.000499 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000446 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.00823 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000319 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Trichloroethene | U | | 0.000321 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000440 | 0.00575 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000853 | 0.00288 | 1 | 08/31/2017 18:22 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.00608 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.00826 | 0.0288 | 25 | 09/06/2017 19:50 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000306 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Vinyl acetate | U | | 0.00275 | 0.0115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Vinyl chloride | U | | 0.000335 | 0.00115 | 1 | 08/31/2017 18:22 | WG1015700 |
| Xylenes, Total | U | | 0.000803 | 0.00345 | 1 | 08/31/2017 18:22 | WG1015700 |
| *(S) Toluene-d8* | *86.6* | | | *80.0-120* | | *09/06/2017 19:50* | WG1015700 |
| *(S) Toluene-d8* | *99.6* | | | *80.0-120* | | *08/31/2017 18:22* | WG1015700 |
| *(S) Dibromofluoromethane* | *98.3* | | | *74.0-131* | | *09/06/2017 19:50* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.5* | | | *74.0-131* | | *08/31/2017 18:22* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *09/06/2017 19:50* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *90.2* | | | *64.0-132* | | *08/31/2017 18:22* | WG1015700 |

**Sample Narrative:**

L932876-02 WG1015700: No low level sodium bisulfite vials remaining

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.0 | | 1 | 09/08/2017 13:40 | WG1018225 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0178 U | J | 0.0109 | 0.0544 | 1 | 09/08/2017 14:32 | WG1018274 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Benzene | 0.000838 J | J | 0.000294 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Bromochloromethane | U | | 0.000424 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| Bromoform | U | | 0.000461 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Bromomethane | U | | 0.00146 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Carbon disulfide | 0.00256 | | 0.000240 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Carbon tetrachloride | U | | 0.000357 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Chlorodibromomethane | U | | 0.000406 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Chloroethane | U | | 0.00103 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| Chloroform | U | | 0.000249 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| Chloromethane | U | | 0.000408 | 0.00272 | 1 | 09/08/2017 14:32 | WG1018274 |
| 2-Chlorotoluene | U | | 0.000327 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2-Dibromoethane | U | | 0.000373 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Dibromomethane | U | | 0.000415 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Dichlorodifluoromethane | U | | 0.000775 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| cis-1,2-Dichloroethene | U | | 0.000256 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| trans-1,2-Dichloroethene | U | | 0.000287 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2-Dichloropropane | U | | 0.000389 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| trans-1,4-Dichloro-2-butene | U | | 0.000846 | 0.00272 | 1 | 09/08/2017 14:32 | WG1018274 |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Hexachloro-1,3-butadiene | U | | 0.000372 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |
| n-Hexane | 0.00387 J | J | 0.000315 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Isopropylbenzene | U | | 0.000264 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 2-Butanone (MEK) | U | | 0.00509 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Methylene Chloride | U | | 0.00109 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Naphthalene | U | | 0.00109 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Styrene | U | | 0.000254 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000397 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000397 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Tetrachloroethene | U | | 0.000300 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Toluene | U | | 0.000472 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2,3-Trichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2,4-Trichlorobenzene | U | | 0.000422 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1,1-Trichloroethane | U | | 0.000311 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,1,2-Trichloroethane | U | | 0.000301 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Trichloroethene | U | | 0.000303 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Trichlorofluoromethane | U | | 0.000415 | 0.00544 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2,3-Trichloropropane | U | | 0.000806 | 0.00272 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2,4-Trimethylbenzene | U | | 0.000229 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,2,3-Trimethylbenzene | U | | 0.000312 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Vinyl chloride | U | | 0.000316 | 0.00109 | 1 | 09/08/2017 14:32 | WG1018274 |
| Xylenes, Total | U | | 0.000759 | 0.00326 | 1 | 09/08/2017 14:32 | WG1018274 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/08/2017 14:32* | WG1018274 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/08/2017 14:32* | WG1018274 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/08/2017 14:32* | WG1018274 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 76.0 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 1.12 | 3.29 | 25 | 09/08/2017 12:23 | WG1017991 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.2* | | | *77.0-120* | | *09/08/2017 12:23* | WG1017991 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0219 U | J JO | 0.0132 | 0.0658 | 1 | 08/31/2017 18:43 | WG1015700 |
| Acrylonitrile | U | | 0.00236 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Benzene | 0.00197 | | 0.000355 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Bromobenzene | U | | 0.000374 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Bromodichloromethane | U | | 0.000334 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Bromochloromethane | U | | 0.000513 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| Bromoform | U | | 0.000558 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Bromomethane | U | | 0.00176 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| n-Butylbenzene | U | | 0.000340 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| sec-Butylbenzene | U | | 0.000265 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| tert-Butylbenzene | U | | 0.000271 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Carbon disulfide | 0.000769 J | J | 0.000291 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Carbon tetrachloride | U | | 0.000432 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| Chlorobenzene | U | | 0.000279 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Chlorodibromomethane | U | | 0.000491 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Chloroethane | U | | 0.00124 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| Chloroform | U | | 0.000301 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| Chloromethane | U | | 0.000494 | 0.00329 | 1 | 09/06/2017 20:16 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000396 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000316 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00138 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000451 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Dibromomethane | U | | 0.000503 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000401 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000315 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000297 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000938 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000262 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000349 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000399 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.000309 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000347 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000471 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000417 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000272 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000345 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000351 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.00102 | 0.00329 | 1 | 08/31/2017 18:43 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000367 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| Di-isopropyl ether | U | | 0.000326 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| Ethylbenzene | U | | 0.000391 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000450 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 2-Hexanone | U | | 0.00180 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |
| n-Hexane | U UJ | JO | 0.000382 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00333 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Isopropylbenzene | U | | 0.000320 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000268 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00616 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Methylene Chloride | U | UJ J0 | 0.00132 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00247 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000279 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Naphthalene | U | | 0.00132 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| n-Propylbenzene | U | | 0.000271 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Styrene | U | | 0.000308 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000347 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000480 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000480 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Tetrachloroethene | U | | 0.000363 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Toluene | U | | 0.000571 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000403 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000511 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000376 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000365 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Trichloroethene | U | | 0.000367 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000503 | 0.00658 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000975 | 0.00329 | 1 | 08/31/2017 18:43 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000278 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000378 | 0.00132 | 1 | 09/06/2017 20:16 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000350 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Vinyl acetate | U | | 0.00315 | 0.0132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Vinyl chloride | U | | 0.000383 | 0.00132 | 1 | 08/31/2017 18:43 | WG1015700 |
| Xylenes, Total | U | | 0.000919 | 0.00395 | 1 | 08/31/2017 18:43 | WG1015700 |
| *(S) Toluene-d8* | *95.0* | | | *80.0-120* | | *09/06/2017 20:16* | WG1015700 |
| *(S) Toluene-d8* | *100* | | | *80.0-120* | | *08/31/2017 18:43* | WG1015700 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *09/06/2017 20:16* | WG1015700 |
| *(S) Dibromofluoromethane* | *97.8* | | | *74.0-131* | | *08/31/2017 18:43* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *88.9* | | | *64.0-132* | | *08/31/2017 18:43* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/06/2017 20:16* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.0 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0111 | 0.0555 | 1 | 08/31/2017 19:04 | WG1015700 |
| Acrylonitrile | U | | 0.00199 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Benzene | U | | 0.000300 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Bromobenzene | U | | 0.000315 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Bromodichloromethane | U | | 0.000282 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Bromochloromethane | U | | 0.000433 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| Bromoform | U | | 0.000471 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Bromomethane | U | | 0.00149 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| n-Butylbenzene | U | | 0.000287 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| tert-Butylbenzene | U | | 0.000229 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Carbon disulfide | 0.000260 J | J | 0.000246 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Carbon tetrachloride | U | | 0.000364 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| Chlorobenzene | U | | 0.000236 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Chlorodibromomethane | U | | 0.000414 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Chloroethane | U | | 0.00105 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| Chloroform | U | | 0.000254 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| Chloromethane | U | | 0.000417 | 0.00278 | 1 | 09/06/2017 20:41 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000334 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000267 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000381 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Dibromomethane | U | | 0.000424 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000266 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000251 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000792 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000221 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000294 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000337 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.000261 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000293 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000398 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000352 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000230 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000291 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000297 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000864 | 0.00278 | 1 | 08/31/2017 19:04 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000310 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| Di-isopropyl ether | U | | 0.000276 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| Ethylbenzene | U | | 0.000330 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000380 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 2-Hexanone | U | | 0.00152 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |
| n-Hexane | U UJ | J0 | 0.000322 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Iodomethane | U | | 0.00281 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Isopropylbenzene | U | | 0.000270 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000227 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00520 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Methylene Chloride | U UJ | J0 | 0.00111 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00209 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000236 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Naphthalene | U | | 0.00111 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| n-Propylbenzene | U | | 0.000229 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Styrene | U | | 0.000260 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000293 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000405 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000405 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Tetrachloroethene | U | | 0.000307 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Toluene | U | | 0.000482 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000340 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000431 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000318 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000308 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Trichloroethene | U | | 0.000310 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000424 | 0.00555 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000823 | 0.00278 | 1 | 08/31/2017 19:04 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000234 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000319 | 0.00111 | 1 | 09/06/2017 20:41 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000296 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Vinyl acetate | U | | 0.00266 | 0.0111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Vinyl chloride | U | | 0.000323 | 0.00111 | 1 | 08/31/2017 19:04 | WG1015700 |
| Xylenes, Total | U | | 0.000775 | 0.00333 | 1 | 08/31/2017 19:04 | WG1015700 |
| *(S) Toluene-d8* | *94.6* | | | *80.0-120* | | *09/06/2017 20:41* | WG1015700 |
| *(S) Toluene-d8* | *98.5* | | | *80.0-120* | | *08/31/2017 19:04* | WG1015700 |
| *(S) Dibromofluoromethane* | *113* | | | *74.0-131* | | *09/06/2017 20:41* | WG1015700 |
| *(S) Dibromofluoromethane* | *98.0* | | | *74.0-131* | | *08/31/2017 19:04* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *89.6* | | | *64.0-132* | | *08/31/2017 19:04* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/06/2017 20:41* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.6 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0112 | 0.0558 | 1 | 08/31/2017 19:24 | WG1015700 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Benzene | U | | 0.000301 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Bromochloromethane | U | | 0.000435 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| Bromoform | U | | 0.000473 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Bromomethane | U | | 0.00150 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| sec-Butylbenzene | U | | 0.000224 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Carbon disulfide | 0.000451 J | J | 0.000247 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Carbon tetrachloride | U | | 0.000366 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Chlorodibromomethane | U | | 0.000416 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Chloroethane | U | | 0.00106 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| Chloroform | U | | 0.000256 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| Chloromethane | U | | 0.000419 | 0.00279 | 1 | 09/06/2017 21:08 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000383 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Dibromomethane | U | | 0.000426 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000340 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000252 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000796 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000296 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000338 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.000262 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000295 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000400 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000354 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000292 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000869 | 0.00279 | 1 | 08/31/2017 19:24 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000311 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| Di-isopropyl ether | U | | 0.000277 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000382 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |
| n-Hexane | U UJ | J0 | 0.000324 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Iodomethane | U | | 0.00282 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Isopropylbenzene | U | | 0.000271 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00522 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Methylene Chloride | U UJ | J0 | 0.00112 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Naphthalene | U | | 0.00112 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Styrene | U | | 0.000261 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000407 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000407 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Tetrachloroethene | U | | 0.000308 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Toluene | U | | 0.000485 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000433 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000319 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000309 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Trichloroethene | U | | 0.000311 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000426 | 0.00558 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000827 | 0.00279 | 1 | 08/31/2017 19:24 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000320 | 0.00112 | 1 | 09/06/2017 21:08 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Vinyl chloride | U | | 0.000325 | 0.00112 | 1 | 08/31/2017 19:24 | WG1015700 |
| Xylenes, Total | U | | 0.000779 | 0.00335 | 1 | 08/31/2017 19:24 | WG1015700 |
| *(S) Toluene-d8* | *99.7* | | | *80.0-120* | | *08/31/2017 19:24* | WG1015700 |
| *(S) Toluene-d8* | *94.3* | | | *80.0-120* | | *09/06/2017 21:08* | WG1015700 |
| *(S) Dibromofluoromethane* | *113* | | | *74.0-131* | | *09/06/2017 21:08* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.8* | | | *74.0-131* | | *08/31/2017 19:24* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *89.2* | | | *64.0-132* | | *08/31/2017 19:24* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/06/2017 21:08* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.4 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | UJ JO | 0.0112 | 0.0560 | 1 | 08/31/2017 19:59 | WG1015700 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Benzene | U | | 0.000302 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Bromobenzene | U | | 0.000318 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Bromochloromethane | U | | 0.000436 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| Bromoform | U | | 0.000474 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Bromomethane | U | | 0.00150 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| n-Butylbenzene | U | | 0.000289 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| sec-Butylbenzene | U | | 0.000225 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| tert-Butylbenzene | U | | 0.000231 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Carbon disulfide | U | | 0.000247 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Carbon tetrachloride | U | | 0.000367 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Chlorodibromomethane | U | | 0.000417 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Chloroethane | U | | 0.00106 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| Chloroform | U | | 0.000256 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| Chloromethane | U | | 0.000420 | 0.00280 | 1 | 09/06/2017 21:34 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000337 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000269 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000384 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Dibromomethane | U | | 0.000427 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000253 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000798 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000223 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000297 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000339 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.000263 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000295 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000401 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000355 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000232 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000293 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000299 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000871 | 0.00280 | 1 | 08/31/2017 19:59 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000312 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| Di-isopropyl ether | U | | 0.000278 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000383 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |
| n-Hexane | U | UJ JO | 0.000325 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Isopropylbenzene | U | | 0.000272 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00524 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Methylene Chloride | U | JO | 0.00112 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | UJ | 0.00210 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Naphthalene | U | | 0.00112 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| n-Propylbenzene | U | | 0.000231 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Styrene | U | | 0.000262 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000408 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000408 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Tetrachloroethene | U | | 0.000309 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Toluene | U | | 0.000486 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000434 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000320 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000310 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Trichloroethene | U | | 0.000312 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000427 | 0.00560 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000829 | 0.00280 | 1 | 08/31/2017 19:59 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000321 | 0.00112 | 1 | 09/06/2017 21:34 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000298 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Vinyl chloride | U | | 0.000326 | 0.00112 | 1 | 08/31/2017 19:59 | WG1015700 |
| Xylenes, Total | U | | 0.000781 | 0.00336 | 1 | 08/31/2017 19:59 | WG1015700 |
| *(S) Toluene-d8* | *95.6* | | | *80.0-120* | | *09/06/2017 21:34* | WG1015700 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *08/31/2017 19:59* | WG1015700 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/06/2017 21:34* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.3* | | | *74.0-131* | | *08/31/2017 19:59* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *89.1* | | | *64.0-132* | | *08/31/2017 19:59* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/06/2017 21:34* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.2 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.984 | 2.90 | 25 | 09/08/2017 12:45 | WG1017991 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.9* | | | *77.0-120* | | *09/08/2017 12:45* | WG1017991 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0116 | 0.0580 | 1 | 08/31/2017 20:20 | WG1015700 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Bromochloromethane | U | | 0.000453 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| Bromoform | U | | 0.000492 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Bromomethane | U | | 0.00155 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Carbon disulfide | 0.00115 J | J | 0.000256 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Carbon tetrachloride | U | | 0.00951 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Chloroethane | 0.00137 J | J | 0.00110 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| Chloroform | U | | 0.000266 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| Chloromethane | U | | 0.0109 | 0.0725 | 25 | 09/06/2017 21:59 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000398 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000827 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1-Dichloroethene | 0.00306 | | 0.000352 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| cis-1,2-Dichloroethene | 2.58 | | 0.00682 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| trans-1,2-Dichloroethene | 0.0111 J | J | 0.00766 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000415 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000903 | 0.00290 | 1 | 08/31/2017 20:20 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.00810 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| Di-isopropyl ether | U | | 0.00719 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |
| n-Hexane | 0.000648 J | J J0 | 0.000336 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00543 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Methylene Chloride | U | UJ J0 | 0.00116 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Naphthalene | U | | 0.00116 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Tetrachloroethene | 0.00863 | | 0.000320 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Toluene | U | | 0.000504 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.00830 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Trichloroethene | 0.0551 | | 0.000324 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00580 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000860 | 0.00290 | 1 | 08/31/2017 20:20 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.00613 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.00833 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 08/31/2017 20:20 | WG1015700 |
| Vinyl chloride | 0.217 | | 0.00845 | 0.0290 | 25 | 09/06/2017 21:59 | WG1015700 |
| Xylenes, Total | U | | 0.000810 | 0.00348 | 1 | 08/31/2017 20:20 | WG1015700 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *08/31/2017 20:20* | WG1015700 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/06/2017 21:59* | WG1015700 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/06/2017 21:59* | WG1015700 |
| *(S) Dibromofluoromethane* | *96.9* | | | *74.0-131* | | *08/31/2017 20:20* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *87.2* | | | *64.0-132* | | *08/31/2017 20:20* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *09/06/2017 21:59* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.0 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.35 | | 0.0373 | 0.110 | 1 | 08/31/2017 16:59 | WG1015659 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.6* | | | *77.0-120* | | *08/31/2017 16:59* | WG1015659 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0110 | 0.0550 | 1 | 08/31/2017 20:40 | WG1015700 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Benzene | U | | 0.000297 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Bromobenzene | U | | 0.000312 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Bromodichloromethane | U | | 0.000279 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Bromochloromethane | U | | 0.000429 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| Bromoform | U | | 0.000466 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Bromomethane | U | | 0.00147 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| n-Butylbenzene | U | | 0.000284 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| tert-Butylbenzene | U | | 0.000226 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Carbon disulfide | 0.000786 J | J | 0.000243 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Carbon tetrachloride | U | | 0.0361 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Chlorodibromomethane | U | | 0.000410 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Chloroethane | U | | 0.00104 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| Chloroform | U | | 0.000252 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| Chloromethane | U | | 0.0412 | 0.275 | 100 | 09/06/2017 22:25 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000331 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000264 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000377 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Dibromomethane | U | | 0.000420 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000335 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000263 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000248 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000784 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000291 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1-Dichloroethene | 0.00222 | | 0.000333 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| cis-1,2-Dichloroethene | 0.740 | | 0.0258 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.0290 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000394 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000349 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000288 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000294 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000855 | 0.00275 | 1 | 08/31/2017 20:40 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.0307 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| Di-isopropyl ether | U | | 0.0273 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| Ethylbenzene | U | | 0.000327 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000376 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |
| n-Hexane | U UJ | J0 | 0.000319 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00278 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Isopropylbenzene | U | | 0.000267 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000224 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00515 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Methylene Chloride | U | UJ JO | 0.00110 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00207 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Naphthalene | U | | 0.00110 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| n-Propylbenzene | U | | 0.000226 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Styrene | U | | 0.000257 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000290 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000401 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000401 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Tetrachloroethene | 17.9 | | 0.0303 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| Toluene | U | | 0.000477 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000427 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.0314 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000305 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Trichloroethene | 2.34 | | 0.0307 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000420 | 0.00550 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000815 | 0.00275 | 1 | 08/31/2017 20:40 | WG1015700 |
| 1,2,4-Trimethylbenzene | 0.0675 | J J | 0.0232 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.0316 | 0.110 | 100 | 09/06/2017 22:25 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000292 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Vinyl acetate | U | | 0.00263 | 0.0110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Vinyl chloride | 0.0196 | | 0.000320 | 0.00110 | 1 | 08/31/2017 20:40 | WG1015700 |
| Xylenes, Total | U | | 0.000767 | 0.00330 | 1 | 08/31/2017 20:40 | WG1015700 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/06/2017 22:25* | WG1015700 |
| *(S) Toluene-d8* | *97.6* | | | *80.0-120* | | *08/31/2017 20:40* | WG1015700 |
| *(S) Dibromofluoromethane* | *98.1* | | | *74.0-131* | | *08/31/2017 20:40* | WG1015700 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/06/2017 22:25* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *90.4* | | | *64.0-132* | | *08/31/2017 20:40* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *99.8* | | | *64.0-132* | | *09/06/2017 22:25* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.6 | | 1 | 09/06/2017 13:33 | WG1017019 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 0.447 | | 0.0374 | 0.110 | 1 | 08/31/2017 17:22 | WG1015659 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.6* | | | *77.0-120* | | *08/31/2017 17:22* | WG1015659 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0221 U | J JO | 0.0110 | 0.0552 | 1 | 08/31/2017 21:01 | WG1015700 |
| Acrylonitrile | U | | 0.00198 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Benzene | U | | 0.000298 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Bromobenzene | U | | 0.000314 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Bromochloromethane | U | | 0.000431 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| Bromoform | U | | 0.000468 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Bromomethane | U | | 0.00148 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| n-Butylbenzene | U | | 0.000285 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| sec-Butylbenzene | U | | 0.000222 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Carbon disulfide | 0.00223 | | 0.000244 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Carbon tetrachloride | U | | 0.00906 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Chlorodibromomethane | U | | 0.000412 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Chloroethane | U | | 0.00104 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| Chloroform | U | | 0.000253 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| Chloromethane | U | | 0.0104 | 0.0690 | 25 | 09/06/2017 22:51 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000265 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000379 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Dibromomethane | U | | 0.000422 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000264 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000250 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000787 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000220 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000293 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1-Dichloroethene | 0.00190 | | 0.000335 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| cis-1,2-Dichloroethene | 4.46 | | 0.00649 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.00729 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000395 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000350 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000229 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000295 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000859 | 0.00276 | 1 | 08/31/2017 21:01 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.00771 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| Di-isopropyl ether | U | | 0.00685 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| Ethylbenzene | U | | 0.000328 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000378 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |
| n-Hexane | 0.00136 J | J JO | 0.000320 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| Iodomethane | U | | | 0.00279 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Isopropylbenzene | U | | | 0.000268 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| p-Isopropyltoluene | U | | | 0.000225 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 2-Butanone (MEK) | U | | | 0.00517 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Methylene Chloride | U | UJ | J0 | 0.00110 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | | 0.00208 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Methyl tert-butyl ether | U | | | 0.000234 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Naphthalene | U | | | 0.00110 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| n-Propylbenzene | U | | | 0.000227 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Styrene | U | | | 0.000258 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | | 0.000292 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | | 0.000403 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | | 0.000403 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Tetrachloroethene | 0.0770 | | | 0.000305 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Toluene | U | | | 0.000479 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | | 0.000338 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | | 0.000428 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,1,1-Trichloroethane | U | | | 0.00790 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| 1,1,2-Trichloroethane | U | | | 0.000306 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Trichloroethene | 0.00544 | | | 0.000308 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Trichlorofluoromethane | U | | | 0.000422 | 0.00552 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2,3-Trichloropropane | U | | | 0.000818 | 0.00276 | 1 | 08/31/2017 21:01 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | | 0.00583 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | | 0.00793 | 0.0276 | 25 | 09/06/2017 22:51 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | | 0.000294 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Vinyl acetate | U | | | 0.00264 | 0.0110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Vinyl chloride | 0.0118 | | | 0.000321 | 0.00110 | 1 | 08/31/2017 21:01 | WG1015700 |
| Xylenes, Total | U | | | 0.000771 | 0.00331 | 1 | 08/31/2017 21:01 | WG1015700 |
| *(S) Toluene-d8* | *88.0* | | | | *80.0-120* | | *09/06/2017 22:51* | WG1015700 |
| *(S) Toluene-d8* | *98.6* | | | | *80.0-120* | | *08/31/2017 21:01* | WG1015700 |
| *(S) Dibromofluoromethane* | *100* | | | | *74.0-131* | | *09/06/2017 22:51* | WG1015700 |
| *(S) Dibromofluoromethane* | *97.0* | | | | *74.0-131* | | *08/31/2017 21:01* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *92.0* | | | | *64.0-132* | | *08/31/2017 21:01* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *99.8* | | | | *64.0-132* | | *09/06/2017 22:51* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 78.4 | | 1 | 09/06/2017 10:08 | WG1017021 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 1.11 | 3.28 | 25.75 | 09/08/2017 13:08 | WG1017991 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-120* | | *09/08/2017 13:08* | WG1017991 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0128 | 0.0638 | 1 | 08/31/2017 21:21 | WG1015700 |
| Acrylonitrile | U | | 0.00228 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Benzene | U | | 0.000344 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Bromobenzene | U | | 0.000362 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Bromodichloromethane | U | | 0.000324 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Bromochloromethane | U | | 0.000497 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| Bromoform | U | | 0.000541 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Bromomethane | U | | 0.00171 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| n-Butylbenzene | U | | 0.000329 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| sec-Butylbenzene | U | | 0.000256 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| tert-Butylbenzene | U | | 0.000263 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Carbon disulfide | 0.00153 | | 0.000282 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Carbon tetrachloride | U | | 0.000418 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| Chlorobenzene | U | | 0.000270 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Chlorodibromomethane | U | | 0.000476 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Chloroethane | U | | 0.00121 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| Chloroform | U | | 0.000292 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| Chloromethane | 0.00219 J | J | 0.000478 | 0.00319 | 1 | 09/06/2017 23:17 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000384 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000306 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00134 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000438 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Dibromomethane | U | | 0.000487 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000389 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000305 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000288 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000910 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000254 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000338 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000387 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| cis-1,2-Dichloroethene | 0.0468 | | 0.000300 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000337 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000457 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000404 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000264 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000334 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000341 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000992 | 0.00319 | 1 | 08/31/2017 21:21 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000356 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| Di-isopropyl ether | U | | 0.000316 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| Ethylbenzene | U | | 0.000379 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000436 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 2-Hexanone | U | | 0.00175 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |
| n-Hexane | 0.00178 J | J J0 | 0.000370 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00323 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Isopropylbenzene | U | | 0.000310 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000260 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00597 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Methylene Chloride | U | UJ J0 | 0.00128 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00240 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000270 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Naphthalene | U | | 0.00128 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| n-Propylbenzene | U | | 0.000263 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Styrene | U | | 0.000298 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000337 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000466 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000466 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Tetrachloroethene | 0.0742 | | 0.000352 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Toluene | U | | 0.000554 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000390 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000495 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000365 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000353 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Trichloroethene | 0.0111 | | 0.000356 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000487 | 0.00638 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000945 | 0.00319 | 1 | 08/31/2017 21:21 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000269 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000366 | 0.00128 | 1 | 09/06/2017 23:17 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000339 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Vinyl acetate | U | | 0.00305 | 0.0128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Vinyl chloride | 0.0426 | | 0.000371 | 0.00128 | 1 | 08/31/2017 21:21 | WG1015700 |
| Xylenes, Total | U | | 0.000890 | 0.00383 | 1 | 08/31/2017 21:21 | WG1015700 |
| *(S) Toluene-d8* | *93.6* | | | *80.0-120* | | *09/06/2017 23:17* | WG1015700 |
| *(S) Toluene-d8* | *100* | | | *80.0-120* | | *08/31/2017 21:21* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.9* | | | *74.0-131* | | *08/31/2017 21:21* | WG1015700 |
| *(S) Dibromofluoromethane* | *115* | | | *74.0-131* | | *09/06/2017 23:17* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *92.9* | | | *64.0-132* | | *08/31/2017 21:21* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/06/2017 23:17* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.5 | | 1 | 09/06/2017 10:08 | WG1017021 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.970 | 2.86 | 26.75 | 09/08/2017 13:30 | WG1017991 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.7* | | | *77.0-120* | | *09/08/2017 13:30* | WG1017991 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0107 | 0.0535 | 1 | 08/31/2017 21:42 | WG1015700 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Benzene | U | | 0.000289 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Bromobenzene | U | | 0.000304 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Bromochloromethane | U | | 0.000417 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| Bromoform | U | | 0.000453 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Bromomethane | U | | 0.00143 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Carbon disulfide | 0.000414 J | J | 0.000236 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Carbon tetrachloride | U | | 0.000351 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Chloroethane | U | | 0.00101 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| Chloroform | U | | 0.000245 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| Chloromethane | 0.00164 J | J | 0.000401 | 0.00267 | 1 | 09/06/2017 23:43 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000367 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Dibromomethane | U | | 0.000409 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000763 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000283 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| cis-1,2-Dichloroethene | 0.0119 J | | 0.000251 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000282 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000280 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000832 | 0.00267 | 1 | 08/31/2017 21:42 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000298 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| Di-isopropyl ether | U | | 0.000265 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000366 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |
| n-Hexane | 0.00184 J | J J0 | 0.000310 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00501 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Methylene Chloride | U | UJ J0 | 0.00107 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Naphthalene | U | | 0.00107 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000282 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000390 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000390 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Tetrachloroethene | 0.0105 | J | 0.000295 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Toluene | U | | 0.000464 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000415 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000296 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Trichloroethene | 0.00316 | J | 0.000298 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000409 | 0.00535 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000792 | 0.00267 | 1 | 08/31/2017 21:42 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000307 | 0.00107 | 1 | 09/06/2017 23:43 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000284 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Vinyl chloride | 0.00656 | J | 0.000311 | 0.00107 | 1 | 08/31/2017 21:42 | WG1015700 |
| Xylenes, Total | U | | 0.000746 | 0.00321 | 1 | 08/31/2017 21:42 | WG1015700 |
| *(S) Toluene-d8* | *94.5* | | | *80.0-120* | | *09/06/2017 23:43* | WG1015700 |
| *(S) Toluene-d8* | *99.6* | | | *80.0-120* | | *08/31/2017 21:42* | WG1015700 |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* | | *09/06/2017 23:43* | WG1015700 |
| *(S) Dibromofluoromethane* | *94.9* | | | *74.0-131* | | *08/31/2017 21:42* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *89.8* | | | *64.0-132* | | *08/31/2017 21:42* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/06/2017 23:43* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.9 | | 1 | 09/06/2017 10:08 | WG1017021 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.893 | 2.63 | 25 | 09/08/2017 13:52 | WG1017991 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.8* | | | *77.0-120* | | *09/08/2017 13:52* | WG1017991 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0105 | 0.0527 | 1 | 08/31/2017 22:03 | WG1015700 |
| Acrylonitrile | U | | 0.00189 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Benzene | U | | 0.000284 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Bromobenzene | U | | 0.000299 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Bromodichloromethane | U | | 0.000268 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Bromochloromethane | U | | 0.000411 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| Bromoform | U | | 0.000447 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Bromomethane | U | | 0.00141 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| n-Butylbenzene | U | | 0.000272 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| sec-Butylbenzene | U | | 0.000212 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| tert-Butylbenzene | U | | 0.000217 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Carbon disulfide | 0.000563 J | J | 0.000233 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Carbon tetrachloride | U | | 0.000346 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| Chlorobenzene | U | | 0.000223 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Chlorodibromomethane | U | | 0.000393 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Chloroethane | U | | 0.000997 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| Chloroform | U | | 0.000241 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| Chloromethane | 0.00171 J | J | 0.000395 | 0.00263 | 1 | 09/07/2017 00:09 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000317 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000253 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000361 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Dibromomethane | U | | 0.000402 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000321 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000252 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000238 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000751 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000210 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000279 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1-Dichloroethene | 0.000521 J | J | 0.000319 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| cis-1,2-Dichloroethene | 0.0725 J | | 0.000248 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.000278 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000377 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000334 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000218 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000276 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000281 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000820 | 0.00263 | 1 | 08/31/2017 22:03 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.000294 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| Di-isopropyl ether | U | | 0.000261 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| Ethylbenzene | U | | 0.000313 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000360 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 2-Hexanone | U | | 0.00144 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |
| n-Hexane | 0.00103 J | J J0 | 0.000305 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00267 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Isopropylbenzene | U | | 0.000256 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| p-Isopropyltoluene | U | | 0.000215 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 2-Butanone (MEK) | U | | 0.00493 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Methylene Chloride | U | UJ J0 | 0.00105 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00198 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Methyl tert-butyl ether | U | | 0.000223 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Naphthalene | U | | 0.00105 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| n-Propylbenzene | U | | 0.000217 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Styrene | U | | 0.000247 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000278 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000385 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000385 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Tetrachloroethene | 0.0407 | J | 0.000291 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Toluene | U | | 0.000457 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | 0.000322 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | 0.000409 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,1,1-Trichloroethane | U | | 0.000301 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| 1,1,2-Trichloroethane | U | | 0.000292 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Trichloroethene | 0.0132 | J | 0.000294 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Trichlorofluoromethane | U | | 0.000402 | 0.00527 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2,3-Trichloropropane | U | | 0.000781 | 0.00263 | 1 | 08/31/2017 22:03 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | 0.000222 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | 0.000302 | 0.00105 | 1 | 09/07/2017 00:09 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | 0.000280 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Vinyl acetate | U | | 0.00252 | 0.0105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Vinyl chloride | 0.0143 | J | 0.000307 | 0.00105 | 1 | 08/31/2017 22:03 | WG1015700 |
| Xylenes, Total | U | | 0.000735 | 0.00316 | 1 | 08/31/2017 22:03 | WG1015700 |
| *(S) Toluene-d8* | *94.1* | | | *80.0-120* | | *09/07/2017 00:09* | WG1015700 |
| *(S) Toluene-d8* | *99.9* | | | *80.0-120* | | *08/31/2017 22:03* | WG1015700 |
| *(S) Dibromofluoromethane* | *115* | | | *74.0-131* | | *09/07/2017 00:09* | WG1015700 |
| *(S) Dibromofluoromethane* | *97.2* | | | *74.0-131* | | *08/31/2017 22:03* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/07/2017 00:09* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *90.8* | | | *64.0-132* | | *08/31/2017 22:03* | WG1015700 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 78.7 | | 1 | 09/06/2017 10:08 | WG1017021 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 1.08 | 3.17 | 25 | 09/08/2017 14:15 | WG1017991 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.2* | | | *77.0-120* | | *09/08/2017 14:15* | WG1017991 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0127 | 0.0635 | 1 | 08/31/2017 22:23 | WG1015700 |
| Acrylonitrile | U | | 0.00227 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Benzene | U | | 0.000343 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Bromobenzene | U | | 0.000361 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Bromodichloromethane | U | | 0.000323 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Bromochloromethane | U | | 0.000495 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| Bromoform | U | | 0.000538 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Bromomethane | U | | 0.00170 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| n-Butylbenzene | U | | 0.000328 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| sec-Butylbenzene | U | | 0.000255 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| tert-Butylbenzene | U | | 0.000262 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Carbon disulfide | 0.000666 J | J | 0.000281 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Carbon tetrachloride | U | | 0.0104 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| Chlorobenzene | U | | 0.000269 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Chlorodibromomethane | U | | 0.000474 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Chloroethane | U | | 0.00120 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| Chloroform | U | | 0.000291 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| Chloromethane | U UJ | J0 | 0.0119 | 0.0794 | 25 | 09/07/2017 12:58 | WG1015700 |
| 2-Chlorotoluene | U | | 0.000382 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 4-Chlorotoluene | U | | 0.000305 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00133 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2-Dibromoethane | U | | 0.000436 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Dibromomethane | U | | 0.000485 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2-Dichlorobenzene | U | | 0.000387 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,3-Dichlorobenzene | U | | 0.000304 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,4-Dichlorobenzene | U | | 0.000287 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Dichlorodifluoromethane | U | | 0.000905 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1-Dichloroethane | U | | 0.000253 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2-Dichloroethane | U | | 0.000337 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1-Dichloroethene | U | | 0.000385 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| cis-1,2-Dichloroethene | U | | 0.00747 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| trans-1,2-Dichloroethene | U | | 0.00838 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| 1,2-Dichloropropane | U | | 0.000455 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1-Dichloropropene | U | | 0.000403 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,3-Dichloropropane | U | | 0.000263 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| cis-1,3-Dichloropropene | U | | 0.000333 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| trans-1,3-Dichloropropene | U | | 0.000339 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| trans-1,4-Dichloro-2-butene | U | | 0.000988 | 0.00317 | 1 | 08/31/2017 22:23 | WG1015700 |
| 2,2-Dichloropropane | U | | 0.00886 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| Di-isopropyl ether | U UJ | J0 | 0.00787 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| Ethylbenzene | U | | 0.000377 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Hexachloro-1,3-butadiene | U | | 0.000434 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 2-Hexanone | U | | 0.00174 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |
| n-Hexane | 0.00494 J | J J0 | 0.000368 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| Iodomethane | U | | | 0.00321 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Isopropylbenzene | U | | | 0.000309 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| p-Isopropyltoluene | U | | | 0.000259 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 2-Butanone (MEK) | U | | | 0.00594 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Methylene Chloride | U | UJ | J0 | 0.00127 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| 4-Methyl-2-pentanone (MIBK) | U | | | 0.00239 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Methyl tert-butyl ether | U | | | 0.000269 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Naphthalene | U | | | 0.00127 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| n-Propylbenzene | U | | | 0.000262 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Styrene | U | | | 0.000297 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1,1,2-Tetrachloroethane | U | | | 0.000335 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1,2,2-Tetrachloroethane | U | | | 0.000464 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1,2-Trichlorotrifluoroethane | U | | | 0.000464 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Tetrachloroethene | 0.000676 | J | J | 0.000350 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Toluene | U | | | 0.000551 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2,3-Trichlorobenzene | U | | | 0.000389 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2,4-Trichlorobenzene | U | | | 0.000493 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,1,1-Trichloroethane | U | | | 0.00908 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| 1,1,2-Trichloroethane | U | | | 0.000352 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Trichloroethene | U | | | 0.000354 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Trichlorofluoromethane | U | | | 0.000485 | 0.00635 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2,3-Trichloropropane | U | | | 0.000941 | 0.00317 | 1 | 08/31/2017 22:23 | WG1015700 |
| 1,2,4-Trimethylbenzene | U | | | 0.00671 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| 1,2,3-Trimethylbenzene | U | | | 0.00912 | 0.0317 | 25 | 09/07/2017 12:58 | WG1015700 |
| 1,3,5-Trimethylbenzene | U | | | 0.000338 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Vinyl acetate | U | | | 0.00304 | 0.0127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Vinyl chloride | U | | | 0.000370 | 0.00127 | 1 | 08/31/2017 22:23 | WG1015700 |
| Xylenes, Total | U | | | 0.000886 | 0.00381 | 1 | 08/31/2017 22:23 | WG1015700 |
| *(S) Toluene-d8* | *100* | | | | *80.0-120* | | *08/31/2017 22:23* | WG1015700 |
| *(S) Toluene-d8* | *107* | | | | *80.0-120* | | *09/07/2017 12:58* | WG1015700 |
| *(S) Dibromofluoromethane* | *95.5* | | | | *74.0-131* | | *09/07/2017 12:58* | WG1015700 |
| *(S) Dibromofluoromethane* | *93.6* | | | | *74.0-131* | | *08/31/2017 22:23* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *92.2* | | | | *64.0-132* | | *08/31/2017 22:23* | WG1015700 |
| *(S) 4-Bromofluorobenzene* | *102* | | | | *64.0-132* | | *09/07/2017 12:58* | WG1015700 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 1.91 | J | 1.05 | 25.0 | 1 | 08/31/2017 00:26 | WG1015444 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 08/31/2017 00:26 | WG1015444 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 08/31/2017 00:26 | WG1015444 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Styrene | U | | 0.117 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Toluene | U | | 0.412 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 08/31/2017 00:26 | WG1015444 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 08/31/2017 00:26 | WG1015444 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 08/31/2017 00:26 | WG1015444 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *08/31/2017 00:26* | WG1015444 |
| *(S) Dibromofluoromethane* | *106* | | | *76.0-123* | | *08/31/2017 00:26* | WG1015444 |
| *(S) 4-Bromofluorobenzene* | *97.0* | | | *80.0-120* | | *08/31/2017 00:26* | WG1015444 |

# ANALYTICAL REPORT

September 11, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L933267 |
| Samples Received: | 08/31/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-205-10 L933267-01 Solid

Collected by: Shannon McKernan | Collected date/time: 08/30/17 09:30 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017613 | 1 | 09/07/17 13:08 | 09/07/17 13:21 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1016318 | 100 | 08/30/17 09:30 | 09/03/17 18:33 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 100 | 08/30/17 09:30 | 09/04/17 19:52 | JHH |

## B-205-55 L933267-02 Solid

Collected by: Shannon McKernan | Collected date/time: 08/30/17 11:35 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017613 | 1 | 09/07/17 13:08 | 09/07/17 13:21 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1016318 | 1 | 08/30/17 11:35 | 09/03/17 18:57 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 1 | 08/30/17 11:35 | 09/04/17 20:13 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 25 | 08/30/17 11:35 | 09/07/17 15:14 | BMB |

## B-205-40-W L933267-03 GW

Collected by: Shannon McKernan | Collected date/time: 08/30/17 10:30 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1016529 | 1 | 09/03/17 16:39 | 09/03/17 16:39 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016167 | 100 | 09/06/17 17:31 | 09/06/17 17:31 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016167 | 100 | 09/08/17 02:19 | 09/08/17 02:19 | JHH |

## MW-140-15 L933267-04 Solid

Collected by: Shannon McKernan | Collected date/time: 08/30/17 10:30 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017613 | 1 | 09/07/17 13:08 | 09/07/17 13:21 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 1 | 08/30/17 10:30 | 09/04/17 20:34 | JHH |

## MW-140-25 L933267-05 Solid

Collected by: Shannon McKernan | Collected date/time: 08/30/17 11:00 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017613 | 1 | 09/07/17 13:08 | 09/07/17 13:21 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 1 | 08/30/17 11:00 | 09/04/17 20:54 | JHH |

## MW-140-35 L933267-06 Solid

Collected by: Shannon McKernan | Collected date/time: 08/30/17 11:35 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017613 | 1 | 09/07/17 13:08 | 09/07/17 13:21 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 200 | 08/30/17 11:35 | 09/07/17 15:40 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 25 | 08/30/17 11:35 | 09/04/17 21:15 | JHH |

## B-205-65 L933267-07 Solid

Collected by: Shannon McKernan | Collected date/time: 08/30/17 12:20 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017613 | 1 | 09/07/17 13:08 | 09/07/17 13:21 | MLW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1016318 | 1 | 08/30/17 12:20 | 09/03/17 20:32 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 1 | 08/30/17 12:20 | 09/04/17 21:35 | JHH |

## B-205-75 L933267-08 Solid

Collected by: Shannon McKernan | Collected date/time: 08/30/17 15:00 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017613 | 1 | 09/07/17 13:08 | 09/07/17 13:21 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 1 | 08/30/17 15:00 | 09/04/17 21:56 | JHH |

## B-904-50 L933267-09 Solid

Collected by: Shannon McKernan | Collected date/time: 08/30/17 16:05 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017615 | 1 | 09/07/17 11:23 | 09/07/17 11:37 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 1 | 08/30/17 16:05 | 09/04/17 22:17 | JHH |

## MW-140-45 L933267-10 Solid

Collected by: Shannon McKernan | Collected date/time: 08/30/17 12:20 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017615 | 1 | 09/07/17 11:23 | 09/07/17 11:37 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 1 | 08/30/17 12:20 | 09/04/17 22:37 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 200 | 08/30/17 12:20 | 09/07/17 20:25 | BMB |

## MW-140-55 L933267-11 Solid

Collected by: Shannon McKernan | Collected date/time: 08/30/17 13:20 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017615 | 1 | 09/07/17 11:23 | 09/07/17 11:37 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 1 | 08/30/17 13:20 | 09/04/17 22:58 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 25 | 08/30/17 13:20 | 09/07/17 16:32 | BMB |

## MW-140-65 L933267-12 Solid

Collected by: Shannon McKernan | Collected date/time: 08/30/17 14:35 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017615 | 1 | 09/07/17 11:23 | 09/07/17 11:37 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 1 | 08/30/17 14:35 | 09/04/17 23:18 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 25.25 | 08/30/17 14:35 | 09/07/17 16:58 | BMB |

## MW-140-75 L933267-13 Solid

Collected by: Shannon McKernan | Collected date/time: 08/30/17 15:35 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017615 | 1 | 09/07/17 11:23 | 09/07/17 11:37 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016266 | 25 | 08/30/17 15:35 | 09/07/17 17:24 | BMB |

## TRIP BLANK L933267-14 GW

Collected by: Shannon McKernan | Collected date/time: 06/08/17 00:00 | Received date/time: 08/31/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015996 | 1 | 09/01/17 10:16 | 09/01/17 10:16 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1015996 | 1 | 09/08/17 11:14 | 09/08/17 11:14 | JHH |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.9 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 274 | | 4.09 | 12.1 | 100 | 09/03/2017 18:33 | WG1016318 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.4* | | | *77.0-120* | | *09/03/2017 18:33* | WG1016318 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 1.21 | 6.03 | 100 | 09/04/2017 19:52 | WG1016266 |
| Acrylonitrile | U | | 0.216 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |
| Benzene | 0.304 | | 0.0326 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Bromobenzene | U | | 0.0343 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Bromodichloromethane | U | J3 | 0.0306 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Bromochloromethane | U | | 0.0470 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| Bromoform | U | | 0.0511 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Bromomethane | U | J3 | 0.162 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| n-Butylbenzene | 0.973 | | 0.0311 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| sec-Butylbenzene | 0.642 | | 0.0242 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| tert-Butylbenzene | U | | 0.0248 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Carbon disulfide | U | J6 | 0.0267 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Carbon tetrachloride | U | | 0.0396 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Chlorobenzene | U | | 0.0256 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Chlorodibromomethane | U | | 0.0450 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Chloroethane | U | | 0.114 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| Chloroform | U | | 0.0276 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| Chloromethane | U | | 0.0452 | 0.302 | 100 | 09/04/2017 19:52 | WG1016266 |
| 2-Chlorotoluene | U | | 0.0363 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 4-Chlorotoluene | U | | 0.0289 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.127 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.0414 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Dibromomethane | U | J3 | 0.0461 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.0368 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.0288 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.0273 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.0860 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.0240 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2-Dichloroethane | U | J3 | 0.0320 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.0365 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| cis-1,2-Dichloroethene | U | | 0.0283 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.0318 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.0432 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.0382 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,3-Dichloropropane | U | J3 | 0.0250 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| cis-1,3-Dichloropropene | U | J3 | 0.0316 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.0322 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.0938 | 0.302 | 100 | 09/04/2017 19:52 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.0336 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Di-isopropyl ether | U | | 0.0299 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Ethylbenzene | 4.74 | | 0.0358 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.0412 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 2-Hexanone | U | J3 | 0.165 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |
| n-Hexane | U | J6 | 0.0350 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.305 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |
| Isopropylbenzene | 0.851 | | 0.0293 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| p-Isopropyltoluene | 0.255 | | 0.0246 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.564 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |
| Methylene Chloride | U | | 0.121 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.227 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |
| Methyl tert-butyl ether | U | | 0.0256 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Naphthalene | 5.21 | | 0.121 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| n-Propylbenzene | 2.84 | | 0.0248 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Styrene | U | J3 | 0.0282 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0318 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0440 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0440 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Tetrachloroethene | U | | 0.0333 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Toluene | 0.372 | J | 0.0523 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.0369 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.0468 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.0345 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.0334 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Trichloroethene | U | | 0.0336 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Trichlorofluoromethane | U | | 0.0461 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.0894 | 0.302 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2,4-Trimethylbenzene | 17.0 | V | 0.0254 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2,3-Trimethylbenzene | 5.03 | | 0.0346 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,3,5-Trimethylbenzene | 3.37 | | 0.0321 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Vinyl acetate | U | | 0.288 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |
| Vinyl chloride | U | | 0.0351 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Xylenes, Total | 6.02 | | 0.0842 | 0.362 | 100 | 09/04/2017 19:52 | WG1016266 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/04/2017 19:52* | WG1016266 |
| *(S) Dibromofluoromethane* | *88.5* | | | *74.0-131* | | *09/04/2017 19:52* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *90.7* | | | *64.0-132* | | *09/04/2017 19:52* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.6 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0396 | 0.117 | 1 | 09/03/2017 18:57 | WG1016318 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.3* | | | *77.0-120* | | *09/03/2017 18:57* | WG1016318 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0117 | 0.0584 | 1 | 09/04/2017 20:13 | WG1016266 |
| Acrylonitrile | U | | 0.00209 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Benzene | U | | 0.000315 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Bromobenzene | U | | 0.000332 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Bromodichloromethane | U | | 0.000297 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Bromochloromethane | U | | 0.000456 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| Bromoform | U | | 0.000495 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Bromomethane | U | | 0.00157 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| n-Butylbenzene | U | | 0.000301 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| sec-Butylbenzene | U | | 0.000235 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| tert-Butylbenzene | U | | 0.000241 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Carbon disulfide | 0.00157 | | 0.000258 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Carbon tetrachloride | U | | 0.000383 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Chlorobenzene | U | | 0.000248 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Chlorodibromomethane | U | | 0.000436 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Chloroethane | U | | 0.00111 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| Chloroform | U | | 0.000268 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| Chloromethane | U | | 0.000438 | 0.00292 | 1 | 09/04/2017 20:13 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000352 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000280 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00123 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000401 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Dibromomethane | U | | 0.000446 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000356 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000279 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000264 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000833 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000232 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000310 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000354 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| cis-1,2-Dichloroethene | 0.0155 | | 0.000275 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000308 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000418 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000370 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000242 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000306 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000312 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000909 | 0.00292 | 1 | 09/04/2017 20:13 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000326 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Di-isopropyl ether | U | | 0.000290 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Ethylbenzene | U | | 0.000347 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000400 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 2-Hexanone | U | | 0.00160 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |
| n-Hexane | 0.00466 | J | 0.000339 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00296 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Isopropylbenzene | U | | 0.000284 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000238 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00547 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Methylene Chloride | U | | 0.00117 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00220 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Methyl tert-butyl ether | U | | 0.000248 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Naphthalene | U | | 0.00117 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| n-Propylbenzene | U | | 0.000241 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Styrene | U | | 0.000273 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000308 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000426 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000426 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Tetrachloroethene | 0.0625 | | 0.000322 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Toluene | U | | 0.000507 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000358 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000453 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000334 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000324 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Trichloroethene | 0.00923 | | 0.000326 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000446 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000866 | 0.00292 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.00617 | 0.0292 | 25 | 09/07/2017 15:14 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000335 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000311 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Vinyl acetate | U | | 0.00279 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Vinyl chloride | 0.00562 | | 0.000340 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Xylenes, Total | U | | 0.000815 | 0.00350 | 1 | 09/04/2017 20:13 | WG1016266 |
| *(S) Toluene-d8* | *91.1* | | | *80.0-120* | | *09/07/2017 15:14* | WG1016266 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/04/2017 20:13* | WG1016266 |
| *(S) Dibromofluoromethane* | *92.1* | | | *74.0-131* | | *09/04/2017 20:13* | WG1016266 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/07/2017 15:14* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *87.5* | | | *64.0-132* | | *09/04/2017 20:13* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *99.8* | | | *64.0-132* | | *09/07/2017 15:14* | WG1016266 |

Sample Narrative:

L933267-02 WG1016266: No low level sodium bisulfite vials remaining for analysis.

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 6550 | | 31.6 | 100 | 1 | 09/03/2017 16:39 | WG1016529 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.1* | | | *77.0-122* | | *09/03/2017 16:39* | WG1016529 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 105 | 2500 | 100 | 09/06/2017 17:31 | WG1016167 |
| Acrylonitrile | U | | 87.3 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |
| Benzene | U | | 8.96 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Bromobenzene | U | | 13.3 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Bromodichloromethane | U | | 8.00 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Bromochloromethane | U | | 14.5 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Bromoform | U | | 18.6 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Bromomethane | U | | 15.7 | 250 | 100 | 09/08/2017 02:19 | WG1016167 |
| n-Butylbenzene | U | | 14.3 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| sec-Butylbenzene | U | | 13.4 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| tert-Butylbenzene | U | | 18.3 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Carbon disulfide | U | | 10.1 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Carbon tetrachloride | U | | 15.9 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Chlorobenzene | U | | 14.0 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Chlorodibromomethane | U | | 12.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Chloroethane | U | | 14.1 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| Chloroform | U | | 8.60 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Chloromethane | U | | 15.3 | 125 | 100 | 09/06/2017 17:31 | WG1016167 |
| 2-Chlorotoluene | U | | 11.1 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 4-Chlorotoluene | U | | 9.72 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2-Dibromo-3-Chloropropane | U | | 32.5 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2-Dibromoethane | U | | 19.3 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Dibromomethane | U | | 11.7 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2-Dichlorobenzene | U | | 10.1 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,3-Dichlorobenzene | U | | 13.0 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,4-Dichlorobenzene | U | | 12.1 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Dichlorodifluoromethane | U | | 12.7 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1-Dichloroethane | U | | 11.4 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2-Dichloroethane | U | | 10.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1-Dichloroethene | U | | 18.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| cis-1,2-Dichloroethene | 5670 | | 9.33 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| trans-1,2-Dichloroethene | 30.1 | J | 15.2 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2-Dichloropropane | U | | 19.0 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1-Dichloropropene | U | | 12.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,3-Dichloropropane | U | | 14.7 | 100 | 100 | 09/06/2017 17:31 | WG1016167 |
| cis-1,3-Dichloropropene | U | | 9.76 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| trans-1,3-Dichloropropene | U | | 22.2 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| trans-1,4-Dichloro-2-butene | U | | 25.7 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |
| 2,2-Dichloropropane | U | | 9.29 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Di-isopropyl ether | U | | 9.24 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Ethylbenzene | U | | 15.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Hexachloro-1,3-butadiene | U | | 15.7 | 100 | 100 | 09/06/2017 17:31 | WG1016167 |
| 2-Hexanone | U | | 75.7 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |
| n-Hexane | U | | 30.5 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |
| Iodomethane | U | | 37.7 | 1000 | 100 | 09/06/2017 17:31 | WG1016167 |
| Isopropylbenzene | U | | 12.6 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| p-Isopropyltoluene | U | | 13.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 2-Butanone (MEK) | U | | 128 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 107 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| 4-Methyl-2-pentanone (MIBK) | U | | 82.3 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |
| Methyl tert-butyl ether | U | | 10.2 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Naphthalene | U | | 17.4 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| n-Propylbenzene | U | | 16.2 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Styrene | U | | 11.7 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1,1,2-Tetrachloroethane | U | | 12.0 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1,2,2-Tetrachloroethane | U | | 13.0 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1,2-Trichlorotrifluoroethane | U | | 16.4 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Tetrachloroethene | 10300 | | 19.9 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Toluene | 55.6 | | 41.2 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2,3-Trichlorobenzene | U | | 16.4 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2,4-Trichlorobenzene | U | | 35.5 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1,1-Trichloroethane | U | | 9.40 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1,2-Trichloroethane | U | | 18.6 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Trichloroethene | 1130 | | 15.3 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Trichlorofluoromethane | U | | 13.0 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2,3-Trichloropropane | U | | 24.7 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2,4-Trimethylbenzene | U | | 12.3 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2,3-Trimethylbenzene | U | | 7.39 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,3,5-Trimethylbenzene | U | | 12.4 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Vinyl acetate | U | | 64.5 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |
| Vinyl chloride | 1010 | | 11.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Xylenes, Total | U | | 31.6 | 150 | 100 | 09/06/2017 17:31 | WG1016167 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/06/2017 17:31* | WG1016167 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/08/2017 02:19* | WG1016167 |
| *(S) Dibromofluoromethane* | *106* | | | *76.0-123* | | *09/08/2017 02:19* | WG1016167 |
| *(S) Dibromofluoromethane* | *112* | | | *76.0-123* | | *09/06/2017 17:31* | WG1016167 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *80.0-120* | | *09/08/2017 02:19* | WG1016167 |
| *(S) 4-Bromofluorobenzene* | *113* | | | *80.0-120* | | *09/06/2017 17:31* | WG1016167 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.7 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0570 | 1 | 09/04/2017 20:34 | WG1016266 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Bromobenzene | U | | 0.000324 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Bromodichloromethane | U | | 0.000290 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Bromochloromethane | U | | 0.000445 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| Bromoform | U | | 0.000484 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Bromomethane | U | | 0.00153 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Carbon disulfide | U | | 0.000252 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Carbon tetrachloride | U | | 0.000374 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Chlorodibromomethane | U | | 0.000425 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Chloroethane | U | | 0.00108 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| Chloroform | U | | 0.000261 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| Chloromethane | U | | 0.000428 | 0.00285 | 1 | 09/04/2017 20:34 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000274 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Dibromomethane | U | | 0.000436 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000273 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000258 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000813 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000346 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| cis-1,2-Dichloroethene | U | | 0.000268 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000301 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000408 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000361 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000299 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000304 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000887 | 0.00285 | 1 | 09/04/2017 20:34 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Di-isopropyl ether | U | | 0.000283 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Ethylbenzene | U | | 0.000339 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000390 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |
| n-Hexane | U | | 0.000331 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Iodomethane | U | | 0.00289 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000233 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00534 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Methylene Chloride | U | | 0.00114 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Naphthalene | U | | 0.00114 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000416 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000416 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Tetrachloroethene | U | | 0.000315 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Toluene | U | | 0.000495 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000442 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000316 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Trichloroethene | U | | 0.000318 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000436 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000845 | 0.00285 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000241 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000327 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000303 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Vinyl acetate | U | | 0.00273 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Vinyl chloride | U | | 0.000332 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Xylenes, Total | U | | 0.000796 | 0.00342 | 1 | 09/04/2017 20:34 | WG1016266 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/04/2017 20:34* | WG1016266 |
| *(S) Dibromofluoromethane* | *95.1* | | | *74.0-131* | | *09/04/2017 20:34* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *82.9* | | | *64.0-132* | | *09/04/2017 20:34* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.2 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0108 | 0.0542 | 1 | 09/04/2017 20:54 | WG1016266 |
| Acrylonitrile | U | | 0.00194 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Benzene | U | | 0.000293 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Bromobenzene | U | | 0.000308 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Bromochloromethane | U | | 0.000423 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| Bromoform | U | | 0.000460 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Bromomethane | U | | 0.00145 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| n-Butylbenzene | U | | 0.000280 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| sec-Butylbenzene | U | | 0.000218 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Carbon disulfide | 0.000278 | J | 0.000240 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Carbon tetrachloride | U | | 0.000356 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Chlorobenzene | U | | 0.000230 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Chlorodibromomethane | U | | 0.000405 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Chloroethane | U | | 0.00103 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| Chloroform | U | | 0.000248 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| Chloromethane | U | | 0.000407 | 0.00271 | 1 | 09/04/2017 20:54 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000326 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000260 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000372 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Dibromomethane | U | | 0.000414 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000259 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000245 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000773 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000287 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000329 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| cis-1,2-Dichloroethene | 0.00199 | | 0.000255 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000286 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000388 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000344 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000284 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000844 | 0.00271 | 1 | 09/04/2017 20:54 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Di-isopropyl ether | U | | 0.000269 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Ethylbenzene | U | | 0.000322 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000371 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 2-Hexanone | U | | 0.00149 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |
| n-Hexane | 0.000406 | J | 0.000314 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Iodomethane | U | | 0.00274 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Isopropylbenzene | U | | 0.000264 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00508 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Methylene Chloride | U | | 0.00108 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000230 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Naphthalene | U | | 0.00108 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Styrene | U | | 0.000254 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000286 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000396 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000396 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Tetrachloroethene | 0.147 | | 0.000299 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Toluene | U | | 0.000471 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000332 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000421 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000310 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000300 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Trichloroethene | 0.0107 | | 0.000303 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000414 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000804 | 0.00271 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000229 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000311 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Vinyl acetate | U | | 0.00259 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Vinyl chloride | U | | 0.000316 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Xylenes, Total | U | | 0.000757 | 0.00325 | 1 | 09/04/2017 20:54 | WG1016266 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/04/2017 20:54* | WG1016266 |
| *(S) Dibromofluoromethane* | *91.8* | | | *74.0-131* | | *09/04/2017 20:54* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *88.1* | | | *64.0-132* | | *09/04/2017 20:54* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.8 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.291 | 1.46 | 25 | 09/04/2017 21:15 | WG1016266 |
| Acrylonitrile | U | | 0.0522 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Benzene | U | | 0.00786 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Bromobenzene | U | | 0.00827 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Bromodichloromethane | U | | 0.00740 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Bromochloromethane | U | | 0.0114 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| Bromoform | U | | 0.0124 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Bromomethane | U | | 0.0390 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| n-Butylbenzene | U | | 0.00752 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| sec-Butylbenzene | U | | 0.00585 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| tert-Butylbenzene | U | | 0.00600 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Carbon disulfide | U | | 0.00643 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Carbon tetrachloride | U | | 0.00955 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Chlorobenzene | U | | 0.00618 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Chlorodibromomethane | U | | 0.0109 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Chloroethane | U | | 0.0275 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| Chloroform | U | | 0.00666 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| Chloromethane | U | | 0.0109 | 0.0728 | 25 | 09/04/2017 21:15 | WG1016266 |
| 2-Chlorotoluene | U | | 0.00876 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 4-Chlorotoluene | U | | 0.00699 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0305 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.0100 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Dibromomethane | U | | 0.0111 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.00888 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.00697 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.00658 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.0207 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.00580 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.00771 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.00883 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| cis-1,2-Dichloroethene | 0.387 | | 0.00685 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.00769 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.0104 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.00923 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.00604 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.00763 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.00778 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.0226 | 0.0728 | 25 | 09/04/2017 21:15 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.00813 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Di-isopropyl ether | U | | 0.00722 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Ethylbenzene | U | | 0.00865 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.00996 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 2-Hexanone | U | | 0.0398 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |
| n-Hexane | U | | 0.00845 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Iodomethane | U | | 0.0736 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Isopropylbenzene | U | | 0.00708 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| p-Isopropyltoluene | U | | 0.00594 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.136 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Methylene Chloride | U | | 0.0291 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0548 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.00618 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Naphthalene | U | | 0.0291 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| n-Propylbenzene | U | | 0.00600 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Styrene | U | | 0.00682 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00769 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0106 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0106 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Tetrachloroethene | 15.1 | | 0.0643 | 0.233 | 200 | 09/07/2017 15:40 | WG1016266 |
| Toluene | U | | 0.0126 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.00891 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.0113 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.00833 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.00806 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Trichloroethene | 0.629 | | 0.00813 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Trichlorofluoromethane | U | | 0.0111 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.0216 | 0.0728 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.00615 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.00837 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.00775 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Vinyl acetate | U | | 0.0697 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Vinyl chloride | 0.0107 | J | 0.00848 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Xylenes, Total | U | | 0.0203 | 0.0874 | 25 | 09/04/2017 21:15 | WG1016266 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/04/2017 21:15* | WG1016266 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/07/2017 15:40* | WG1016266 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/07/2017 15:40* | WG1016266 |
| *(S) Dibromofluoromethane* | *86.9* | | | *74.0-131* | | *09/04/2017 21:15* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *99.8* | | | *64.0-132* | | *09/07/2017 15:40* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *86.6* | | | *64.0-132* | | *09/04/2017 21:15* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.4 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0359 | 0.106 | 1 | 09/03/2017 20:32 | WG1016318 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.2* | | | *77.0-120* | | *09/03/2017 20:32* | WG1016318 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0106 | 0.0529 | 1 | 09/04/2017 21:35 | WG1016266 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Benzene | U | | 0.000286 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Bromobenzene | U | | 0.000301 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Bromodichloromethane | U | | 0.000269 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Bromochloromethane | U | | 0.000413 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| Bromoform | U | | 0.000449 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Bromomethane | U | | 0.00142 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| n-Butylbenzene | U | | 0.000273 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| sec-Butylbenzene | U | | 0.000213 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| tert-Butylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Carbon disulfide | 0.00148 | | 0.000234 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Carbon tetrachloride | U | | 0.000347 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Chlorobenzene | U | | 0.000224 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Chlorodibromomethane | U | | 0.000395 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Chloroethane | U | | 0.00100 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| Chloroform | U | | 0.000242 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| Chloromethane | U | | 0.000397 | 0.00265 | 1 | 09/04/2017 21:35 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000319 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000254 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000363 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Dibromomethane | U | | 0.000405 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000323 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000253 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000239 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000755 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000211 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000281 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000321 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| cis-1,2-Dichloroethene | 0.00390 | | 0.000249 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000280 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000379 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000336 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000219 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000277 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000283 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000824 | 0.00265 | 1 | 09/04/2017 21:35 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000295 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Di-isopropyl ether | U | | 0.000263 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Ethylbenzene | U | | 0.000314 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000362 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 2-Hexanone | U | | 0.00145 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |
| n-Hexane | 0.00583 | J | 0.000307 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00268 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Isopropylbenzene | U | | 0.000257 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000216 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00496 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Methylene Chloride | U | | 0.00106 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00199 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Methyl tert-butyl ether | U | | 0.000224 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Naphthalene | U | | 0.00106 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| n-Propylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Styrene | U | | 0.000248 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000280 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000387 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000387 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Tetrachloroethene | 0.0296 | | 0.000292 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Toluene | U | | 0.000460 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000324 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000411 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000303 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000293 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Trichloroethene | 0.00582 | | 0.000295 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000405 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000785 | 0.00265 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000223 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000304 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000282 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Vinyl acetate | U | | 0.00253 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Vinyl chloride | 0.000378 | J | 0.000308 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Xylenes, Total | U | | 0.000739 | 0.00318 | 1 | 09/04/2017 21:35 | WG1016266 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/04/2017 21:35* | WG1016266 |
| *(S) Dibromofluoromethane* | *92.3* | | | *74.0-131* | | *09/04/2017 21:35* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *87.1* | | | *64.0-132* | | *09/04/2017 21:35* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.4 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0107 | 0.0535 | 1 | 09/04/2017 21:56 | WG1016266 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Benzene | U | | 0.000289 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Bromobenzene | U | | 0.000304 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Bromochloromethane | U | | 0.000418 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| Bromoform | U | | 0.000454 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Bromomethane | U | | 0.00144 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Carbon disulfide | 0.00121 | | 0.000237 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Carbon tetrachloride | U | | 0.000351 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Chloroethane | U | | 0.00101 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| Chloroform | U | | 0.000245 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| Chloromethane | U | | 0.000402 | 0.00268 | 1 | 09/04/2017 21:56 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000367 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Dibromomethane | U | | 0.000409 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000764 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| cis-1,2-Dichloroethene | 0.000585 | J | 0.000252 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000833 | 0.00268 | 1 | 09/04/2017 21:56 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000299 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Di-isopropyl ether | U | | 0.000266 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000366 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |
| n-Hexane | 0.00452 | J | 0.000311 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00501 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Methylene Chloride | U | | 0.00107 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Naphthalene | U | | 0.00107 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000391 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000391 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Tetrachloroethene | 0.00308 | | 0.000296 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Toluene | U | | 0.000465 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000416 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000297 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Trichloroethene | 0.000399 | J | 0.000299 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000409 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000794 | 0.00268 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000307 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Vinyl chloride | U | | 0.000312 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Xylenes, Total | U | | 0.000748 | 0.00321 | 1 | 09/04/2017 21:56 | WG1016266 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/04/2017 21:56* | WG1016266 |
| *(S) Dibromofluoromethane* | *93.2* | | | *74.0-131* | | *09/04/2017 21:56* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *87.6* | | | *64.0-132* | | *09/04/2017 21:56* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.2 | | 1 | 09/07/2017 11:37 | WG1017615 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0107 | 0.0536 | 1 | 09/04/2017 22:17 | WG1016266 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Benzene | U | | 0.000290 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Bromobenzene | U | | 0.000305 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Bromochloromethane | U | | 0.000418 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| Bromoform | U | | 0.000455 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Bromomethane | U | | 0.00144 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| n-Butylbenzene | U | | 0.000277 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| sec-Butylbenzene | U | | 0.000216 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Carbon disulfide | 0.000877 | J | 0.000237 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Carbon tetrachloride | U | | 0.000352 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Chlorodibromomethane | U | | 0.000400 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Chloroethane | U | | 0.00101 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| Chloroform | U | | 0.000246 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| Chloromethane | U | | 0.000402 | 0.00268 | 1 | 09/04/2017 22:17 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000323 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000368 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Dibromomethane | U | | 0.000410 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000765 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000325 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| cis-1,2-Dichloroethene | 0.00170 | | 0.000252 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000384 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000340 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000835 | 0.00268 | 1 | 09/04/2017 22:17 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000299 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Di-isopropyl ether | U | | 0.000266 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Ethylbenzene | U | | 0.000319 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000367 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |
| n-Hexane | 0.00551 | J | 0.000311 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Isopropylbenzene | U | | 0.000261 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000219 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00502 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Methylene Chloride | U | | 0.00107 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Naphthalene | U | | 0.00107 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000392 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000392 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Tetrachloroethene | 0.00954 | | 0.000296 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Toluene | U | | 0.000466 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000416 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000307 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000297 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Trichloroethene | 0.00234 | | 0.000299 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000410 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000795 | 0.00268 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000308 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Vinyl chloride | U | | 0.000312 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Xylenes, Total | U | | 0.000749 | 0.00322 | 1 | 09/04/2017 22:17 | WG1016266 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/04/2017 22:17* | WG1016266 |
| *(S) Dibromofluoromethane* | *91.9* | | | *74.0-131* | | *09/04/2017 22:17* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *86.8* | | | *64.0-132* | | *09/04/2017 22:17* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.7 | | 1 | 09/07/2017 11:37 | WG1017615 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0107 | 0.0534 | 1 | 09/04/2017 22:37 | WG1016266 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Benzene | U | | 0.000288 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Bromobenzene | U | | 0.000303 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Bromodichloromethane | U | | 0.000271 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Bromochloromethane | U | | 0.000416 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| Bromoform | U | | 0.000452 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Bromomethane | U | | 0.00143 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| n-Butylbenzene | U | | 0.000275 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Carbon disulfide | 0.000774 | J | 0.000236 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Carbon tetrachloride | U | | 0.000350 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Chlorobenzene | U | | 0.000226 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Chlorodibromomethane | U | | 0.000398 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Chloroethane | U | | 0.00101 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| Chloroform | U | | 0.000244 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| Chloromethane | U | | 0.000400 | 0.00267 | 1 | 09/04/2017 22:37 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000321 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000256 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000366 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Dibromomethane | U | | 0.000408 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000255 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000761 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1-Dichloroethene | 0.000324 | J | 0.000323 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| cis-1,2-Dichloroethene | 0.0431 | | 0.000251 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000282 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000382 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000338 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000280 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000285 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000830 | 0.00267 | 1 | 09/04/2017 22:37 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000298 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Di-isopropyl ether | U | | 0.000265 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Ethylbenzene | U | | 0.000317 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000365 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 2-Hexanone | U | | 0.00146 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |
| n-Hexane | 0.00107 | J | 0.000309 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Iodomethane | U | | 0.00270 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Isopropylbenzene | U | | 0.000259 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00499 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Methylene Chloride | U | | 0.00107 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Naphthalene | U | | 0.00107 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000282 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000390 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000390 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Tetrachloroethene | 4.27 | | 0.0589 | 0.213 | 200 | 09/07/2017 20:25 | WG1016266 |
| Toluene | U | | 0.000463 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000414 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000305 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000296 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Trichloroethene | 0.0793 | | 0.000298 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000408 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000791 | 0.00267 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000306 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000284 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Vinyl acetate | U | | 0.00255 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Vinyl chloride | 0.00160 | | 0.000311 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Xylenes, Total | U | | 0.000745 | 0.00320 | 1 | 09/04/2017 22:37 | WG1016266 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/07/2017 20:25* | WG1016266 |
| *(S) Toluene-d8* | *98.4* | | | *80.0-120* | | *09/04/2017 22:37* | WG1016266 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/07/2017 20:25* | WG1016266 |
| *(S) Dibromofluoromethane* | *92.3* | | | *74.0-131* | | *09/04/2017 22:37* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/07/2017 20:25* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *86.8* | | | *64.0-132* | | *09/04/2017 22:37* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.1 | | 1 | 09/07/2017 11:37 | WG1017615 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0110 | 0.0549 | 1 | 09/04/2017 22:58 | WG1016266 |
| Acrylonitrile | U | | 0.00196 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Benzene | 0.000379 | J | 0.000296 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Bromobenzene | U | | 0.000312 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Bromodichloromethane | U | | 0.000279 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Bromochloromethane | U | | 0.000428 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| Bromoform | U | | 0.000465 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Bromomethane | U | | 0.00147 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| n-Butylbenzene | U | | 0.000283 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| tert-Butylbenzene | U | | 0.000226 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Carbon disulfide | 0.00196 | | 0.000243 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Carbon tetrachloride | U | | 0.000360 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Chlorodibromomethane | U | | 0.000409 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Chloroethane | U | | 0.00104 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| Chloroform | U | | 0.000251 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| Chloromethane | U | | 0.000412 | 0.00274 | 1 | 09/04/2017 22:58 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000330 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000263 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000376 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Dibromomethane | U | | 0.000419 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000335 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000262 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000248 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000782 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000218 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000291 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1-Dichloroethene | 0.000499 | J | 0.000333 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| cis-1,2-Dichloroethene | 0.130 | | 0.000258 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| trans-1,2-Dichloroethene | 0.000500 | J | 0.000290 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000393 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000348 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000227 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000288 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000293 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000854 | 0.00274 | 1 | 09/04/2017 22:58 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000306 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Di-isopropyl ether | U | | 0.000272 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Ethylbenzene | U | | 0.000326 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000375 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 2-Hexanone | U | | 0.00150 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |
| n-Hexane | 0.0134 | | 0.000318 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Iodomethane | U | | 0.00278 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Isopropylbenzene | U | | 0.000267 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000224 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00514 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Methylene Chloride | U | | 0.00110 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00206 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Naphthalene | U | | 0.00110 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| n-Propylbenzene | U | | 0.000226 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Styrene | U | | 0.000257 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000290 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000401 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000401 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Tetrachloroethene | 1.56 | | 0.00757 | 0.0274 | 25 | 09/07/2017 16:32 | WG1016266 |
| Toluene | 0.000498 | J | 0.000476 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000426 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000314 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000304 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Trichloroethene | 0.0496 | | 0.000306 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000419 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000813 | 0.00274 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000315 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000292 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Vinyl acetate | U | | 0.00262 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Vinyl chloride | 0.0990 | | 0.000319 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Xylenes, Total | U | | 0.000766 | 0.00329 | 1 | 09/04/2017 22:58 | WG1016266 |
| *(S) Toluene-d8* | *98.7* | | | *80.0-120* | | *09/04/2017 22:58* | WG1016266 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/07/2017 16:32* | WG1016266 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/07/2017 16:32* | WG1016266 |
| *(S) Dibromofluoromethane* | *92.7* | | | *74.0-131* | | *09/04/2017 22:58* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *87.3* | | | *64.0-132* | | *09/04/2017 22:58* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/07/2017 16:32* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.4 | | 1 | 09/07/2017 11:37 | WG1017615 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0107 | 0.0535 | 1 | 09/04/2017 23:18 | WG1016266 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Benzene | U | | 0.000289 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Bromobenzene | U | | 0.000304 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Bromochloromethane | U | | 0.000418 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| Bromoform | U | | 0.000454 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Bromomethane | U | | 0.00143 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Carbon disulfide | 0.00384 | | 0.000237 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Carbon tetrachloride | U | | 0.000351 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Chloroethane | U | | 0.00101 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| Chloroform | U | | 0.000245 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| Chloromethane | U | | 0.000402 | 0.00268 | 1 | 09/04/2017 23:18 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000367 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Dibromomethane | U | | 0.000409 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000763 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| cis-1,2-Dichloroethene | U | | 0.000252 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000833 | 0.00268 | 1 | 09/04/2017 23:18 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000299 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Di-isopropyl ether | U | | 0.000266 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000366 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |
| n-Hexane | 0.00870 | J | 0.000311 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00501 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Methylene Chloride | U | | 0.00107 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Naphthalene | U | | 0.00107 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000391 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000391 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Tetrachloroethene | U | | 0.00746 | 0.0270 | 25.25 | 09/07/2017 16:58 | WG1016266 |
| Toluene | U | | 0.000465 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000415 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000297 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Trichloroethene | U | | 0.000299 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000409 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000793 | 0.00268 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000307 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Vinyl chloride | U | | 0.000312 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Xylenes, Total | U | | 0.000747 | 0.00321 | 1 | 09/04/2017 23:18 | WG1016266 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/04/2017 23:18* | WG1016266 |
| *(S) Toluene-d8* | *97.8* | | | *80.0-120* | | *09/07/2017 16:58* | WG1016266 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/07/2017 16:58* | WG1016266 |
| *(S) Dibromofluoromethane* | *95.0* | | | *74.0-131* | | *09/04/2017 23:18* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *89.0* | | | *64.0-132* | | *09/04/2017 23:18* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/07/2017 16:58* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.7 | | 1 | 09/07/2017 11:37 | WG1017615 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.270 | 1.35 | 25 | 09/07/2017 17:24 | WG1016266 |
| Acrylonitrile | U | | 0.0483 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Benzene | U | | 0.00728 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Bromobenzene | U | | 0.00766 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Bromodichloromethane | U | | 0.00685 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Bromochloromethane | U | | 0.0105 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| Bromoform | U | | 0.0114 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Bromomethane | U | | 0.0361 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| n-Butylbenzene | U | | 0.00696 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| sec-Butylbenzene | U | | 0.00541 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| tert-Butylbenzene | U | | 0.00555 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Carbon disulfide | U | | 0.00595 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Carbon tetrachloride | U | | 0.00884 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Chlorobenzene | U | | 0.00572 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Chlorodibromomethane | U | | 0.0101 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Chloroethane | U | | 0.0255 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| Chloroform | U | | 0.00617 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| Chloromethane | U | | 0.0101 | 0.0674 | 25 | 09/07/2017 17:24 | WG1016266 |
| 2-Chlorotoluene | U | | 0.00811 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 4-Chlorotoluene | U | | 0.00647 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0283 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.00925 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Dibromomethane | U | | 0.0103 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.00822 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.00645 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.00609 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.0192 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.00537 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.00714 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.00817 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| cis-1,2-Dichloroethene | U | | 0.00634 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.00712 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.00965 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.00854 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.00559 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.00706 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.00720 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.0209 | 0.0674 | 25 | 09/07/2017 17:24 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.00753 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Di-isopropyl ether | U | | 0.00669 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Ethylbenzene | U | | 0.00800 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.00922 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 2-Hexanone | U | | 0.0369 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |
| n-Hexane | U | | 0.00782 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Iodomethane | U | | 0.0682 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Isopropylbenzene | U | | 0.00656 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| p-Isopropyltoluene | U | | 0.00550 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.126 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Methylene Chloride | U | | 0.0270 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0507 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 0.00683 | J | 0.00572 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Naphthalene | U | | 0.0270 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| n-Propylbenzene | U | | 0.00555 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Styrene | U | | 0.00631 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00712 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00984 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00984 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Tetrachloroethene | U | | 0.00744 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Toluene | U | | 0.0116 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.00825 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.0105 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.00771 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.00746 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Trichloroethene | U | | 0.00753 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Trichlorofluoromethane | U | | 0.0103 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.0200 | 0.0674 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.00569 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.00774 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.00717 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Vinyl acetate | U | | 0.0645 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Vinyl chloride | U | | 0.00785 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Xylenes, Total | U | | 0.0188 | 0.0809 | 25 | 09/07/2017 17:24 | WG1016266 |
| *(S) Toluene-d8* | *86.9* | | | *80.0-120* | | *09/07/2017 17:24* | WG1016266 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/07/2017 17:24* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/07/2017 17:24* | WG1016266 |

**Sample Narrative:**

L933267-13 WG1016266: No low level sodium bisulfite vials remaining for analysis.

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 1.42 | J | 1.05 | 25.0 | 1 | 09/08/2017 11:14 | WG1015996 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Bromomethane | U | J3 | 0.157 | 2.50 | 1 | 09/08/2017 11:14 | WG1015996 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/01/2017 10:16 | WG1015996 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/08/2017 11:14 | WG1015996 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/08/2017 11:14 | WG1015996 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| Iodomethane | U | J3 | 0.377 | 10.0 | 1 | 09/08/2017 11:14 | WG1015996 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/08/2017 11:14 | WG1015996 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/08/2017 11:14 | WG1015996 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/08/2017 11:14 | WG1015996 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/08/2017 11:14* | WG1015996 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/01/2017 10:16* | WG1015996 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *09/01/2017 10:16* | WG1015996 |
| *(S) Dibromofluoromethane* | *106* | | | *76.0-123* | | *09/08/2017 11:14* | WG1015996 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *80.0-120* | | *09/08/2017 11:14* | WG1015996 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *80.0-120* | | *09/01/2017 10:16* | WG1015996 |

## Method Blank (MB)

(MB) R3247741-1 09/07/17 13:21

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000400 | | | |

## L933266-13 Original Sample (OS) • Duplicate (DUP)

(OS) L933266-13 09/07/17 13:21 • (DUP) R3247741-3 09/07/17 13:21

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 72.0 | 72.2 | 1 | 0.270 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3247741-2 09/07/17 13:21

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3247724-1 09/07/17 11:37

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00140 | | | |

## L933267-09 Original Sample (OS) • Duplicate (DUP)

(OS) L933267-09 09/07/17 11:37 • (DUP) R3247724-3 09/07/17 11:37

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 93.2 | 93.5 | 1 | 0.248 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3247724-2 09/07/17 11:37

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3247528-3 09/03/17 14:21

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.9* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247528-1 09/03/17 13:10 • (LCSD) R3247528-2 09/03/17 13:33

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | 5.14 | 5.31 | 93.5 | 96.6 | 70.0-133 | | | 3.24 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *101* | *102* | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3247051-3 09/03/17 15:51

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.5* | | | *77.0-122* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247051-1 09/03/17 14:16 • (LCSD) R3247051-2 09/03/17 15:03

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 5700 | 5650 | 104 | 103 | 72.0-134 | | | 0.890 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *110* | *110* | *77.0-122* | | | | |

## L933750-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L933750-05 09/03/17 22:57 • (MS) R3247051-4 09/03/17 23:21 • (MSD) R3247051-5 09/03/17 23:44

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 45.0 | 6360 | 6300 | 115 | 114 | 1 | 23.0-159 | | | 0.810 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *108* | *109* | | *77.0-122* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3246436-3 09/01/17 09:06

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | 0.169 | J | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3246436-3 09/01/17 09:06

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | 3.47 | J | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *107* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246436-1 09/01/17 08:14 • (LCSD) R3246436-2 09/01/17 08:32

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 178 | 183 | 142 | 147 | 10.0-160 | | | 3.17 | 23 |
| Acrylonitrile | 125 | 168 | 146 | 134 | 117 | 60.0-142 | | | 14.1 | 20 |
| Benzene | 25.0 | 27.3 | 26.5 | 109 | 106 | 69.0-123 | | | 2.95 | 20 |
| Bromobenzene | 25.0 | 26.9 | 26.7 | 107 | 107 | 79.0-120 | | | 0.680 | 20 |
| Bromodichloromethane | 25.0 | 27.6 | 27.1 | 110 | 108 | 76.0-120 | | | 2.05 | 20 |
| Bromochloromethane | 25.0 | 26.6 | 26.2 | 106 | 105 | 76.0-122 | | | 1.59 | 20 |
| Bromoform | 25.0 | 28.2 | 27.7 | 113 | 111 | 67.0-132 | | | 1.72 | 20 |
| Bromomethane | 25.0 | 14.8 | 18.2 | 59.3 | 73.0 | 18.0-160 | | J3 | 20.6 | 20 |
| n-Butylbenzene | 25.0 | 30.0 | 29.7 | 120 | 119 | 72.0-126 | | | 0.740 | 20 |
| sec-Butylbenzene | 25.0 | 28.1 | 28.0 | 112 | 112 | 74.0-121 | | | 0.150 | 20 |
| tert-Butylbenzene | 25.0 | 27.6 | 27.4 | 111 | 109 | 75.0-122 | | | 1.06 | 20 |
| Carbon disulfide | 25.0 | 25.5 | 25.0 | 102 | 99.8 | 55.0-127 | | | 2.02 | 20 |
| Carbon tetrachloride | 25.0 | 26.1 | 25.2 | 104 | 101 | 63.0-122 | | | 3.54 | 20 |
| Chlorobenzene | 25.0 | 27.7 | 27.5 | 111 | 110 | 79.0-121 | | | 0.870 | 20 |
| Chlorodibromomethane | 25.0 | 27.7 | 27.8 | 111 | 111 | 75.0-125 | | | 0.410 | 20 |
| Chloroethane | 25.0 | 22.5 | 22.4 | 90.1 | 89.5 | 47.0-152 | | | 0.730 | 20 |
| Chloroform | 25.0 | 27.1 | 26.2 | 108 | 105 | 72.0-121 | | | 3.27 | 20 |
| Chloromethane | 25.0 | 21.4 | 21.0 | 85.8 | 83.9 | 48.0-139 | | | 2.24 | 20 |
| 2-Chlorotoluene | 25.0 | 28.8 | 28.0 | 115 | 112 | 74.0-122 | | | 2.89 | 20 |
| 4-Chlorotoluene | 25.0 | 27.9 | 28.2 | 112 | 113 | 79.0-120 | | | 0.930 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 30.7 | 28.4 | 123 | 113 | 64.0-127 | | | 7.78 | 20 |
| 1,2-Dibromoethane | 25.0 | 28.5 | 27.1 | 114 | 108 | 77.0-123 | | | 5.34 | 20 |
| Dibromomethane | 25.0 | 28.2 | 27.5 | 113 | 110 | 78.0-120 | | | 2.51 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 27.9 | 27.6 | 111 | 110 | 80.0-120 | | | 0.940 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 27.1 | 26.8 | 109 | 107 | 72.0-123 | | | 1.39 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 25.7 | 25.3 | 103 | 101 | 77.0-120 | | | 1.53 | 20 |
| Dichlorodifluoromethane | 25.0 | 24.3 | 23.8 | 97.1 | 95.2 | 49.0-155 | | | 2.01 | 20 |
| 1,1-Dichloroethane | 25.0 | 28.4 | 27.8 | 114 | 111 | 70.0-126 | | | 2.13 | 20 |
| 1,2-Dichloroethane | 25.0 | 28.6 | 27.4 | 114 | 109 | 67.0-126 | | | 4.41 | 20 |
| 1,1-Dichloroethene | 25.0 | 25.7 | 24.7 | 103 | 98.8 | 64.0-129 | | | 4.11 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 25.1 | 25.2 | 100 | 101 | 73.0-120 | | | 0.270 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 26.0 | 25.4 | 104 | 102 | 71.0-121 | | | 2.31 | 20 |
| 1,2-Dichloropropane | 25.0 | 28.7 | 27.7 | 115 | 111 | 75.0-125 | | | 3.59 | 20 |
| 1,1-Dichloropropene | 25.0 | 28.0 | 27.4 | 112 | 110 | 71.0-129 | | | 2.13 | 20 |
| 1,3-Dichloropropane | 25.0 | 28.3 | 26.9 | 113 | 108 | 80.0-121 | | | 5.14 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 30.1 | 29.3 | 120 | 117 | 79.0-123 | | | 2.55 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 25.9 | 25.2 | 104 | 101 | 74.0-127 | | | 2.69 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 21.9 | 21.0 | 87.6 | 84.2 | 55.0-134 | | | 4.02 | 20 |
| 2,2-Dichloropropane | 25.0 | 28.6 | 27.1 | 114 | 108 | 60.0-125 | | | 5.31 | 20 |
| Di-isopropyl ether | 25.0 | 27.3 | 26.7 | 109 | 107 | 59.0-133 | | | 2.23 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246436-1 09/01/17 08:14 • (LCSD) R3246436-2 09/01/17 08:32

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 27.3 | 26.6 | 109 | 106 | 77.0-120 | | | 2.58 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 27.9 | 27.6 | 112 | 110 | 64.0-131 | | | 1.12 | 20 |
| 2-Hexanone | 125 | 170 | 166 | 136 | 133 | 58.0-147 | | | 2.19 | 20 |
| n-Hexane | 25.0 | 27.8 | 27.7 | 111 | 111 | 56.0-124 | | | 0.280 | 20 |
| Iodomethane | 125 | 95.4 | 118 | 76.3 | 94.4 | 57.0-140 | | J3 | 21.2 | 20 |
| Isopropylbenzene | 25.0 | 28.0 | 27.7 | 112 | 111 | 75.0-120 | | | 1.06 | 20 |
| p-Isopropyltoluene | 25.0 | 29.0 | 28.5 | 116 | 114 | 74.0-126 | | | 1.57 | 20 |
| 2-Butanone (MEK) | 125 | 175 | 176 | 140 | 141 | 37.0-158 | | | 0.400 | 20 |
| Methylene Chloride | 25.0 | 26.3 | 24.8 | 105 | 99.1 | 66.0-121 | | | 5.93 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 151 | 142 | 120 | 114 | 59.0-143 | | | 5.57 | 20 |
| Methyl tert-butyl ether | 25.0 | 26.6 | 25.6 | 106 | 102 | 64.0-123 | | | 3.88 | 20 |
| Naphthalene | 25.0 | 28.4 | 27.7 | 114 | 111 | 62.0-128 | | | 2.46 | 20 |
| n-Propylbenzene | 25.0 | 28.6 | 28.6 | 114 | 114 | 79.0-120 | | | 0.0700 | 20 |
| Styrene | 25.0 | 28.6 | 28.0 | 114 | 112 | 78.0-124 | | | 2.21 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 25.8 | 25.6 | 103 | 102 | 75.0-122 | | | 0.720 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 30.1 | 28.3 | 120 | 113 | 71.0-122 | | | 6.25 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 25.9 | 26.0 | 104 | 104 | 61.0-136 | | | 0.140 | 20 |
| Tetrachloroethene | 25.0 | 26.6 | 26.5 | 106 | 106 | 70.0-127 | | | 0.500 | 20 |
| Toluene | 25.0 | 26.3 | 26.3 | 105 | 105 | 77.0-120 | | | 0.200 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 27.2 | 27.7 | 109 | 111 | 61.0-133 | | | 1.72 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 27.2 | 27.4 | 109 | 110 | 69.0-129 | | | 0.530 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 26.8 | 26.6 | 107 | 106 | 68.0-122 | | | 1.01 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 26.4 | 25.5 | 106 | 102 | 78.0-120 | | | 3.54 | 20 |
| Trichloroethene | 25.0 | 25.8 | 25.4 | 103 | 102 | 78.0-120 | | | 1.24 | 20 |
| Trichlorofluoromethane | 25.0 | 22.3 | 22.0 | 89.2 | 87.8 | 56.0-137 | | | 1.56 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 29.5 | 29.0 | 118 | 116 | 72.0-124 | | | 1.77 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 27.5 | 27.3 | 110 | 109 | 75.0-120 | | | 0.660 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 25.2 | 24.7 | 101 | 98.7 | 75.0-120 | | | 2.29 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 27.6 | 27.5 | 110 | 110 | 75.0-120 | | | 0.470 | 20 |
| Vinyl acetate | 125 | 179 | 168 | 143 | 134 | 46.0-160 | | | 6.72 | 20 |
| Vinyl chloride | 25.0 | 22.5 | 22.1 | 90.1 | 88.5 | 64.0-133 | | | 1.78 | 20 |
| Xylenes, Total | 75.0 | 81.5 | 80.8 | 109 | 108 | 77.0-120 | | | 0.860 | 20 |
| *(S) Toluene-d8* | | | | *102* | *102* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *100* | *99.9* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *105* | *106* | *80.0-120* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3246905-4 09/01/17 14:46

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3246905-4 09/01/17 14:46

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *103* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *99.1* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246905-1 09/01/17 13:06 • (LCSD) R3246905-2 09/01/17 13:26

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 148 | 164 | 119 | 131 | 10.0-160 | | | 10.1 | 23 |
| Acrylonitrile | 125 | 140 | 139 | 112 | 111 | 60.0-142 | | | 1.03 | 20 |
| Benzene | 25.0 | 26.9 | 26.4 | 107 | 105 | 69.0-123 | | | 1.93 | 20 |
| Bromobenzene | 25.0 | 23.9 | 23.8 | 95.6 | 95.3 | 79.0-120 | | | 0.340 | 20 |
| Bromodichloromethane | 25.0 | 26.7 | 26.2 | 107 | 105 | 76.0-120 | | | 1.62 | 20 |
| Bromochloromethane | 25.0 | 27.0 | 26.8 | 108 | 107 | 76.0-122 | | | 0.930 | 20 |
| Bromoform | 25.0 | 24.7 | 24.6 | 98.8 | 98.4 | 67.0-132 | | | 0.460 | 20 |
| Bromomethane | 25.0 | 28.5 | 27.5 | 114 | 110 | 18.0-160 | | | 3.76 | 20 |
| n-Butylbenzene | 25.0 | 28.4 | 28.6 | 114 | 114 | 72.0-126 | | | 0.630 | 20 |
| sec-Butylbenzene | 25.0 | 26.1 | 25.7 | 104 | 103 | 74.0-121 | | | 1.64 | 20 |
| tert-Butylbenzene | 25.0 | 25.3 | 25.4 | 101 | 102 | 75.0-122 | | | 0.610 | 20 |
| Carbon disulfide | 25.0 | 26.3 | 25.6 | 105 | 103 | 55.0-127 | | | 2.59 | 20 |
| Carbon tetrachloride | 25.0 | 26.1 | 25.5 | 104 | 102 | 63.0-122 | | | 2.44 | 20 |
| Chlorobenzene | 25.0 | 24.5 | 24.7 | 97.8 | 98.7 | 79.0-121 | | | 0.910 | 20 |
| Chlorodibromomethane | 25.0 | 25.5 | 25.4 | 102 | 102 | 75.0-125 | | | 0.280 | 20 |
| Chloroethane | 25.0 | 28.4 | 28.0 | 114 | 112 | 47.0-152 | | | 1.71 | 20 |
| Chloroform | 25.0 | 27.2 | 26.9 | 109 | 108 | 72.0-121 | | | 1.02 | 20 |
| Chloromethane | 25.0 | 25.6 | 25.4 | 102 | 101 | 48.0-139 | | | 1.00 | 20 |
| 2-Chlorotoluene | 25.0 | 25.0 | 24.7 | 100 | 98.6 | 74.0-122 | | | 1.50 | 20 |
| 4-Chlorotoluene | 25.0 | 24.6 | 24.4 | 98.5 | 97.6 | 79.0-120 | | | 0.970 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 25.7 | 26.3 | 103 | 105 | 64.0-127 | | | 2.29 | 20 |
| 1,2-Dibromoethane | 25.0 | 24.6 | 25.0 | 98.3 | 100 | 77.0-123 | | | 1.90 | 20 |
| Dibromomethane | 25.0 | 26.4 | 26.6 | 106 | 106 | 78.0-120 | | | 0.720 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 25.9 | 25.8 | 104 | 103 | 80.0-120 | | | 0.560 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 25.0 | 25.0 | 100 | 100 | 72.0-123 | | | 0.0700 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 24.6 | 24.7 | 98.6 | 99.0 | 77.0-120 | | | 0.410 | 20 |
| Dichlorodifluoromethane | 25.0 | 26.1 | 26.0 | 104 | 104 | 49.0-155 | | | 0.300 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 24.8 | 25.1 | 99.2 | 101 | 55.0-134 | | | 1.28 | 20 |
| 1,1-Dichloroethane | 25.0 | 28.0 | 27.9 | 112 | 111 | 70.0-126 | | | 0.690 | 20 |
| 1,2-Dichloroethane | 25.0 | 28.9 | 28.8 | 116 | 115 | 67.0-126 | | | 0.490 | 20 |
| 1,1-Dichloroethene | 25.0 | 27.1 | 26.7 | 108 | 107 | 64.0-129 | | | 1.25 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 26.9 | 26.3 | 108 | 105 | 73.0-120 | | | 2.40 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 26.8 | 26.4 | 107 | 106 | 71.0-121 | | | 1.39 | 20 |
| 1,2-Dichloropropane | 25.0 | 27.9 | 27.4 | 112 | 110 | 75.0-125 | | | 1.78 | 20 |
| 1,1-Dichloropropene | 25.0 | 27.4 | 27.3 | 110 | 109 | 71.0-129 | | | 0.260 | 20 |
| 1,3-Dichloropropane | 25.0 | 24.8 | 24.8 | 99.1 | 99.1 | 80.0-121 | | | 0.0600 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 28.2 | 28.3 | 113 | 113 | 79.0-123 | | | 0.310 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 27.8 | 27.8 | 111 | 111 | 74.0-127 | | | 0.0800 | 20 |
| 2,2-Dichloropropane | 25.0 | 26.0 | 25.0 | 104 | 100 | 60.0-125 | | | 3.91 | 20 |
| Di-isopropyl ether | 25.0 | 27.5 | 27.0 | 110 | 108 | 59.0-133 | | | 1.91 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246905-1 09/01/17 13:06 • (LCSD) R3246905-2 09/01/17 13:26

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 24.3 | 24.2 | 97.1 | 97.0 | 77.0-120 | | | 0.160 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 29.7 | 31.5 | 119 | 126 | 64.0-131 | | | 5.76 | 20 |
| 2-Hexanone | 125 | 114 | 116 | 91.2 | 93.0 | 58.0-147 | | | 1.95 | 20 |
| n-Hexane | 25.0 | 27.1 | 26.4 | 108 | 105 | 56.0-124 | | | 2.56 | 20 |
| Iodomethane | 125 | 134 | 132 | 107 | 105 | 57.0-140 | | | 1.91 | 20 |
| Isopropylbenzene | 25.0 | 24.6 | 24.3 | 98.3 | 97.1 | 75.0-120 | | | 1.15 | 20 |
| p-Isopropyltoluene | 25.0 | 27.0 | 26.8 | 108 | 107 | 74.0-126 | | | 0.760 | 20 |
| 2-Butanone (MEK) | 125 | 148 | 148 | 118 | 119 | 37.0-158 | | | 0.430 | 20 |
| Methylene Chloride | 25.0 | 26.5 | 26.0 | 106 | 104 | 66.0-121 | | | 2.05 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 130 | 131 | 104 | 105 | 59.0-143 | | | 0.790 | 20 |
| Methyl tert-butyl ether | 25.0 | 26.2 | 26.0 | 105 | 104 | 64.0-123 | | | 0.420 | 20 |
| Naphthalene | 25.0 | 27.2 | 28.0 | 109 | 112 | 62.0-128 | | | 2.87 | 20 |
| n-Propylbenzene | 25.0 | 25.6 | 25.5 | 102 | 102 | 79.0-120 | | | 0.510 | 20 |
| Styrene | 25.0 | 25.2 | 24.9 | 101 | 99.5 | 78.0-124 | | | 1.27 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 25.2 | 24.9 | 101 | 99.7 | 75.0-122 | | | 1.05 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 25.0 | 24.6 | 99.9 | 98.3 | 71.0-122 | | | 1.63 | 20 |
| Tetrachloroethene | 25.0 | 23.9 | 23.8 | 95.6 | 95.2 | 70.0-127 | | | 0.450 | 20 |
| Toluene | 25.0 | 24.3 | 24.3 | 97.3 | 97.4 | 77.0-120 | | | 0.0600 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 26.8 | 26.4 | 107 | 106 | 61.0-136 | | | 1.45 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 31.2 | 31.5 | 125 | 126 | 61.0-133 | | | 1.17 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 31.1 | 31.6 | 124 | 127 | 69.0-129 | | | 1.75 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 27.7 | 26.9 | 111 | 107 | 68.0-122 | | | 2.92 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 24.9 | 25.1 | 99.7 | 100 | 78.0-120 | | | 0.650 | 20 |
| Trichloroethene | 25.0 | 25.9 | 26.0 | 104 | 104 | 78.0-120 | | | 0.490 | 20 |
| Trichlorofluoromethane | 25.0 | 28.6 | 28.4 | 115 | 114 | 56.0-137 | | | 0.900 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 24.5 | 24.5 | 98.2 | 98.0 | 72.0-124 | | | 0.120 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 24.1 | 23.9 | 96.5 | 95.8 | 75.0-120 | | | 0.760 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 25.5 | 25.4 | 102 | 102 | 75.0-120 | | | 0.310 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 25.5 | 25.1 | 102 | 100 | 75.0-120 | | | 1.51 | 20 |
| Vinyl acetate | 125 | 140 | 135 | 112 | 108 | 46.0-160 | | | 3.57 | 20 |
| Vinyl chloride | 25.0 | 28.0 | 27.6 | 112 | 110 | 64.0-133 | | | 1.56 | 20 |
| Xylenes, Total | 75.0 | 74.3 | 73.9 | 99.1 | 98.5 | 77.0-120 | | | 0.540 | 20 |
| *(S) Toluene-d8* | | | | *98.9* | *99.6* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *106* | *106* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *99.6* | *100* | *80.0-120* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3247494-3 09/04/17 14:29

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3247494-3 09/04/17 14:29

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *91.4* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *86.3* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247494-1 09/04/17 13:28 • (LCSD) R3247494-4 09/04/17 15:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0862 | 0.0896 | 69.0 | 71.7 | 11.0-160 | | | 3.83 | 23 |
| Acrylonitrile | 0.125 | 0.0991 | 0.0989 | 79.2 | 79.1 | 61.0-143 | | | 0.150 | 20 |
| Benzene | 0.0250 | 0.0217 | 0.0201 | 86.6 | 80.5 | 71.0-124 | | | 7.37 | 20 |
| Bromobenzene | 0.0250 | 0.0221 | 0.0203 | 88.5 | 81.2 | 78.0-120 | | | 8.67 | 20 |
| Bromodichloromethane | 0.0250 | 0.0243 | 0.0230 | 97.4 | 91.8 | 75.0-120 | | | 5.86 | 20 |
| Bromoform | 0.0250 | 0.0262 | 0.0243 | 105 | 97.2 | 65.0-133 | | | 7.56 | 20 |
| Bromochloromethane | 0.0250 | 0.0238 | 0.0230 | 95.1 | 91.9 | 80.0-121 | | | 3.45 | 20 |
| Bromomethane | 0.0250 | 0.0218 | 0.0212 | 87.2 | 84.8 | 26.0-160 | | | 2.78 | 20 |
| n-Butylbenzene | 0.0250 | 0.0244 | 0.0228 | 97.5 | 91.2 | 73.0-126 | | | 6.68 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0238 | 0.0221 | 95.2 | 88.4 | 75.0-121 | | | 7.43 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0242 | 0.0226 | 96.9 | 90.4 | 74.0-122 | | | 6.96 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0227 | 0.0216 | 90.9 | 86.6 | 66.0-123 | | | 4.86 | 20 |
| Carbon disulfide | 0.0250 | 0.0186 | 0.0166 | 74.5 | 66.2 | 53.0-130 | | | 11.8 | 20 |
| Chlorobenzene | 0.0250 | 0.0300 | 0.0272 | 120 | 109 | 79.0-121 | | | 9.82 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0297 | 0.0272 | 119 | 109 | 74.0-128 | | | 8.76 | 20 |
| Chloroethane | 0.0250 | 0.0216 | 0.0203 | 86.4 | 81.4 | 51.0-147 | | | 6.02 | 20 |
| Chloroform | 0.0250 | 0.0221 | 0.0211 | 88.5 | 84.5 | 73.0-123 | | | 4.59 | 20 |
| Chloromethane | 0.0250 | 0.0176 | 0.0178 | 70.3 | 71.2 | 51.0-138 | | | 1.22 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0235 | 0.0218 | 93.9 | 87.1 | 72.0-124 | | | 7.53 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0228 | 0.0211 | 91.4 | 84.3 | 78.0-120 | | | 8.04 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0261 | 0.0247 | 104 | 98.7 | 65.0-126 | | | 5.68 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0286 | 0.0263 | 114 | 105 | 78.0-122 | | | 8.51 | 20 |
| Dibromomethane | 0.0250 | 0.0240 | 0.0229 | 96.1 | 91.7 | 79.0-120 | | | 4.69 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0272 | 0.0253 | 109 | 101 | 80.0-120 | | | 7.09 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0272 | 0.0258 | 109 | 103 | 72.0-123 | | | 5.16 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0253 | 0.0240 | 101 | 95.9 | 77.0-120 | | | 5.47 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0208 | 0.0246 | 83.2 | 98.4 | 49.0-155 | | | 16.8 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0224 | 0.0216 | 89.7 | 86.5 | 68.0-126 | | | 3.68 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0217 | 0.0208 | 86.7 | 83.0 | 70.0-128 | | | 4.32 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0219 | 0.0206 | 87.5 | 82.6 | 69.0-128 | | | 5.72 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0230 | 0.0214 | 92.0 | 85.6 | 63.0-131 | | | 7.16 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0212 | 0.0200 | 84.8 | 80.2 | 74.0-123 | | | 5.60 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0205 | 0.0191 | 82.0 | 76.3 | 72.0-122 | | | 7.25 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0240 | 0.0227 | 96.0 | 90.8 | 75.0-126 | | | 5.58 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0207 | 0.0194 | 82.8 | 77.6 | 72.0-130 | | | 6.49 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0283 | 0.0265 | 113 | 106 | 80.0-121 | | | 6.52 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0293 | 0.0273 | 117 | 109 | 80.0-125 | | | 7.30 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0305 | 0.0278 | 122 | 111 | 75.0-129 | | | 9.21 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0205 | 0.0197 | 81.9 | 78.6 | 60.0-129 | | | 4.15 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0193 | 0.0181 | 77.2 | 72.4 | 62.0-133 | | | 6.44 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247494-1 09/04/17 13:28 • (LCSD) R3247494-4 09/04/17 15:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0271 | 0.0248 | 109 | 99.0 | 77.0-120 | | | 9.17 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0287 | 0.0274 | 115 | 110 | 68.0-128 | | | 4.71 | 20 |
| 2-Hexanone | 0.125 | 0.127 | 0.129 | 102 | 103 | 61.0-143 | | | 1.05 | 20 |
| Isopropylbenzene | 0.0250 | 0.0229 | 0.0212 | 91.6 | 85.0 | 75.0-120 | | | 7.53 | 20 |
| n-Hexane | 0.0250 | 0.0158 | 0.0146 | 63.1 | 58.5 | 57.0-125 | | | 7.68 | 20 |
| Iodomethane | 0.125 | 0.138 | 0.129 | 111 | 103 | 67.0-132 | | | 7.02 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0253 | 0.0239 | 101 | 95.5 | 74.0-125 | | | 5.71 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0978 | 0.106 | 78.3 | 85.1 | 37.0-159 | | | 8.38 | 20 |
| Methylene Chloride | 0.0250 | 0.0216 | 0.0194 | 86.6 | 77.7 | 67.0-123 | | | 10.9 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.121 | 0.120 | 96.6 | 95.9 | 60.0-144 | | | 0.750 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0215 | 0.0206 | 85.9 | 82.4 | 66.0-125 | | | 4.13 | 20 |
| Naphthalene | 0.0250 | 0.0245 | 0.0230 | 98.0 | 91.8 | 64.0-125 | | | 6.46 | 20 |
| n-Propylbenzene | 0.0250 | 0.0234 | 0.0217 | 93.6 | 86.9 | 78.0-120 | | | 7.46 | 20 |
| Styrene | 0.0250 | 0.0246 | 0.0224 | 98.3 | 89.5 | 78.0-124 | | | 9.33 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0277 | 0.0261 | 111 | 104 | 74.0-124 | | | 6.02 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0229 | 0.0221 | 91.5 | 88.5 | 73.0-120 | | | 3.28 | 20 |
| Tetrachloroethene | 0.0250 | 0.0310 | 0.0285 | 124 | 114 | 70.0-127 | | | 8.13 | 20 |
| Toluene | 0.0250 | 0.0257 | 0.0234 | 103 | 93.7 | 77.0-120 | | | 9.11 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0246 | 0.0229 | 98.4 | 91.6 | 64.0-135 | | | 7.06 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0284 | 0.0272 | 114 | 109 | 68.0-126 | | | 4.31 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0289 | 0.0281 | 116 | 112 | 70.0-127 | | | 2.90 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0214 | 0.0203 | 85.4 | 81.2 | 69.0-125 | | | 5.07 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0277 | 0.0254 | 111 | 102 | 78.0-120 | | | 8.41 | 20 |
| Trichloroethene | 0.0250 | 0.0258 | 0.0246 | 103 | 98.2 | 79.0-120 | | | 5.12 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0280 | 0.0266 | 112 | 106 | 59.0-136 | | | 5.31 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0224 | 0.0222 | 89.5 | 88.7 | 73.0-124 | | | 0.860 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0218 | 0.0201 | 87.4 | 80.6 | 76.0-120 | | | 8.06 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0216 | 0.0206 | 86.2 | 82.3 | 75.0-120 | | | 4.63 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0227 | 0.0215 | 91.0 | 86.1 | 75.0-120 | | | 5.52 | 20 |
| Vinyl chloride | 0.0250 | 0.0236 | 0.0240 | 94.4 | 96.1 | 63.0-134 | | | 1.86 | 20 |
| Xylenes, Total | 0.0750 | 0.0809 | 0.0733 | 108 | 97.7 | 77.0-120 | | | 9.86 | 20 |
| Vinyl acetate | 0.125 | 0.114 | 0.110 | 91.2 | 88.0 | 58.0-156 | | | 3.63 | 20 |
| *(S) Toluene-d8* | | | | *110* | *108* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *88.3* | *89.2* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *84.9* | *85.0* | *64.0-132* | | | | |

## L933267-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L933267-01 09/04/17 19:52 • (MS) R3247494-5 09/04/17 16:05 • (MSD) R3247494-6 09/04/17 16:26

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.151 | U | 4.31 | 4.54 | 28.6 | 30.1 | 100 | 10.0-160 | | | 5.27 | 36 |
| Acrylonitrile | 0.151 | U | 5.70 | 6.47 | 37.8 | 42.9 | 100 | 14.0-160 | | | 12.5 | 33 |
| Benzene | 0.0302 | 0.304 | 1.14 | 1.38 | 27.7 | 35.6 | 100 | 13.0-146 | | | 18.9 | 27 |
| Bromobenzene | 0.0302 | U | 1.29 | 1.60 | 42.7 | 53.2 | 100 | 10.0-149 | | | 21.8 | 33 |
| Bromodichloromethane | 0.0302 | U | 1.18 | 1.58 | 39.2 | 52.5 | 100 | 15.0-142 | | J3 | 29.0 | 28 |
| Bromoform | 0.0302 | U | 1.33 | 1.77 | 44.0 | 58.7 | 100 | 10.0-147 | | | 28.7 | 31 |
| Bromomethane | 0.0302 | U | 0.487 | 0.689 | 16.1 | 22.8 | 100 | 10.0-160 | | J3 | 34.4 | 32 |
| Bromochloromethane | 0.0302 | U | 0.992 | 1.27 | 32.9 | 42.1 | 100 | 24.0-146 | | | 24.5 | 27 |
| n-Butylbenzene | 0.0302 | 0.973 | 1.85 | 2.02 | 29.0 | 34.8 | 100 | 10.0-154 | | | 9.03 | 37 |
| sec-Butylbenzene | 0.0302 | 0.642 | 1.73 | 1.91 | 36.2 | 42.0 | 100 | 10.0-151 | | | 9.64 | 36 |
| tert-Butylbenzene | 0.0302 | U | 1.21 | 1.49 | 40.0 | 49.4 | 100 | 10.0-152 | | | 21.0 | 35 |
| Carbon tetrachloride | 0.0302 | U | 0.879 | 1.11 | 29.1 | 36.9 | 100 | 13.0-140 | | | 23.5 | 30 |
| Chlorobenzene | 0.0302 | U | 1.29 | 1.66 | 42.9 | 55.2 | 100 | 10.0-149 | | | 25.1 | 31 |
| Chlorodibromomethane | 0.0302 | U | 1.40 | 1.83 | 46.4 | 60.8 | 100 | 12.0-147 | | | 26.9 | 29 |
| Carbon disulfide | 0.0302 | U | 0.185 | 0.222 | 6.14 | 7.37 | 100 | 10.0-141 | J6 | J6 | 18.3 | 30 |
| Chloroethane | 0.0302 | U | 0.565 | 0.725 | 18.7 | 24.0 | 100 | 10.0-159 | | | 24.8 | 33 |
| Chloroform | 0.0302 | U | 1.04 | 1.36 | 34.3 | 45.0 | 100 | 18.0-148 | | | 26.9 | 28 |
| Chloromethane | 0.0302 | U | 0.392 | 0.483 | 13.0 | 16.0 | 100 | 10.0-146 | | | 20.8 | 29 |
| 2-Chlorotoluene | 0.0302 | U | 1.44 | 1.72 | 47.6 | 56.9 | 100 | 10.0-151 | | | 17.8 | 35 |
| 4-Chlorotoluene | 0.0302 | U | 0.998 | 1.34 | 33.1 | 44.5 | 100 | 10.0-150 | | | 29.3 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0302 | U | 1.37 | 1.90 | 45.4 | 63.2 | 100 | 10.0-149 | | | 32.7 | 34 |
| 1,2-Dibromoethane | 0.0302 | U | 1.27 | 1.62 | 42.1 | 53.7 | 100 | 14.0-145 | | | 24.3 | 28 |
| Dibromomethane | 0.0302 | U | 1.08 | 1.45 | 35.8 | 48.0 | 100 | 18.0-144 | | J3 | 29.2 | 27 |
| 1,2-Dichlorobenzene | 0.0302 | U | 1.30 | 1.78 | 43.1 | 58.9 | 100 | 10.0-153 | | | 30.9 | 34 |
| 1,3-Dichlorobenzene | 0.0302 | U | 1.20 | 1.61 | 39.7 | 53.3 | 100 | 10.0-150 | | | 29.2 | 35 |
| 1,4-Dichlorobenzene | 0.0302 | U | 1.13 | 1.51 | 37.6 | 50.1 | 100 | 10.0-148 | | | 28.4 | 34 |
| Dichlorodifluoromethane | 0.0302 | U | 0.645 | 0.733 | 21.4 | 24.3 | 100 | 10.0-160 | | | 12.8 | 30 |
| 1,1-Dichloroethane | 0.0302 | U | 0.950 | 1.21 | 31.5 | 40.0 | 100 | 19.0-148 | | | 23.8 | 28 |
| 1,2-Dichloroethane | 0.0302 | U | 0.941 | 1.29 | 31.2 | 42.9 | 100 | 17.0-147 | | J3 | 31.6 | 27 |
| trans-1,4-Dichloro-2-butene | 0.0302 | U | 1.26 | 1.52 | 41.9 | 50.3 | 100 | 10.0-160 | | | 18.2 | 40 |
| 1,1-Dichloroethene | 0.0302 | U | 0.747 | 0.913 | 24.8 | 30.3 | 100 | 10.0-150 | | | 20.1 | 31 |
| cis-1,2-Dichloroethene | 0.0302 | U | 0.899 | 1.09 | 29.8 | 36.1 | 100 | 16.0-145 | | | 19.0 | 28 |
| trans-1,2-Dichloroethene | 0.0302 | U | 0.568 | 0.741 | 18.8 | 24.6 | 100 | 11.0-142 | | | 26.6 | 29 |
| 1,2-Dichloropropane | 0.0302 | U | 1.15 | 1.48 | 38.0 | 49.0 | 100 | 17.0-148 | | | 25.3 | 28 |
| 1,1-Dichloropropene | 0.0302 | U | 0.667 | 0.868 | 22.1 | 28.8 | 100 | 10.0-150 | | | 26.2 | 30 |
| 1,3-Dichloropropane | 0.0302 | U | 1.32 | 1.73 | 43.7 | 57.5 | 100 | 16.0-148 | | J3 | 27.3 | 27 |
| cis-1,3-Dichloropropene | 0.0302 | U | 1.23 | 1.64 | 40.7 | 54.5 | 100 | 13.0-150 | | J3 | 29.0 | 28 |
| trans-1,3-Dichloropropene | 0.0302 | U | 1.34 | 1.74 | 44.4 | 57.7 | 100 | 10.0-152 | | | 26.0 | 29 |
| 2,2-Dichloropropane | 0.0302 | U | 0.859 | 1.15 | 28.5 | 38.2 | 100 | 16.0-143 | | | 29.1 | 30 |

## L933267-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L933267-01 09/04/17 19:52 • (MS) R3247494-5 09/04/17 16:05 • (MSD) R3247494-6 09/04/17 16:26

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Di-isopropyl ether | 0.0302 | U | 0.966 | 1.24 | 32.0 | 41.0 | 100 | 16.0-149 | | | 24.4 | 28 |
| Ethylbenzene | 0.0302 | 4.74 | 5.89 | 6.03 | 38.1 | 42.7 | 100 | 10.0-147 | | | 2.35 | 31 |
| Hexachloro-1,3-butadiene | 0.0302 | U | 1.05 | 1.54 | 34.9 | 50.9 | 100 | 10.0-154 | | | 37.4 | 40 |
| Isopropylbenzene | 0.0302 | 0.851 | 1.91 | 2.20 | 35.3 | 44.7 | 100 | 10.0-147 | | | 13.8 | 33 |
| 2-Hexanone | 0.151 | U | 6.45 | 8.87 | 42.8 | 58.8 | 100 | 12.0-158 | | J3 | 31.5 | 30 |
| p-Isopropyltoluene | 0.0302 | 0.255 | 1.46 | 1.70 | 39.8 | 47.9 | 100 | 10.0-156 | | | 15.4 | 37 |
| 2-Butanone (MEK) | 0.151 | U | 5.50 | 6.65 | 36.5 | 44.1 | 100 | 10.0-160 | | | 19.0 | 33 |
| n-Hexane | 0.0302 | U | 0.272 | 0.326 | 9.03 | 10.8 | 100 | 10.0-140 | J6 | | 18.1 | 34 |
| Iodomethane | 0.151 | U | 4.03 | 5.12 | 26.7 | 34.0 | 100 | 10.0-157 | | | 23.8 | 34 |
| Methylene Chloride | 0.0302 | U | 0.768 | 0.989 | 25.5 | 32.8 | 100 | 16.0-139 | | | 25.2 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.151 | U | 8.37 | 10.0 | 55.5 | 66.6 | 100 | 12.0-160 | | | 18.1 | 32 |
| Methyl tert-butyl ether | 0.0302 | U | 1.04 | 1.38 | 34.6 | 45.7 | 100 | 21.0-145 | | | 27.5 | 29 |
| Naphthalene | 0.0302 | 5.21 | 6.07 | 6.68 | 28.7 | 48.8 | 100 | 10.0-153 | | | 9.51 | 36 |
| n-Propylbenzene | 0.0302 | 2.84 | 3.80 | 4.00 | 31.5 | 38.3 | 100 | 10.0-151 | | | 5.21 | 34 |
| Styrene | 0.0302 | U | 1.06 | 1.51 | 35.1 | 50.1 | 100 | 10.0-155 | | J3 | 35.2 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0302 | U | 1.38 | 1.80 | 45.7 | 59.8 | 100 | 10.0-147 | | | 26.7 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0302 | U | 1.44 | 1.88 | 47.7 | 62.3 | 100 | 10.0-155 | | | 26.5 | 31 |
| Tetrachloroethene | 0.0302 | U | 0.991 | 1.31 | 32.9 | 43.3 | 100 | 10.0-144 | | | 27.5 | 32 |
| Toluene | 0.0302 | 0.372 | 1.33 | 1.60 | 31.7 | 40.8 | 100 | 10.0-144 | | | 18.8 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0302 | U | 0.976 | 1.17 | 32.4 | 38.8 | 100 | 10.0-153 | | | 18.1 | 33 |
| 1,2,3-Trichlorobenzene | 0.0302 | U | 1.24 | 1.70 | 41.2 | 56.5 | 100 | 10.0-153 | | | 31.3 | 40 |
| 1,2,4-Trichlorobenzene | 0.0302 | U | 1.20 | 1.59 | 39.7 | 52.6 | 100 | 10.0-156 | | | 28.1 | 40 |
| 1,1,1-Trichloroethane | 0.0302 | U | 0.926 | 1.21 | 30.7 | 40.2 | 100 | 18.0-145 | | | 26.8 | 29 |
| 1,1,2-Trichloroethane | 0.0302 | U | 1.64 | 2.06 | 54.5 | 68.3 | 100 | 12.0-151 | | | 22.4 | 28 |
| Trichloroethene | 0.0302 | U | 0.994 | 1.27 | 33.0 | 42.2 | 100 | 11.0-148 | | | 24.6 | 29 |
| Trichlorofluoromethane | 0.0302 | U | 0.847 | 1.11 | 28.1 | 36.8 | 100 | 10.0-157 | | | 26.8 | 34 |
| 1,2,3-Trichloropropane | 0.0302 | U | 1.31 | 1.72 | 43.3 | 56.9 | 100 | 10.0-154 | | | 27.1 | 32 |
| 1,2,3-Trimethylbenzene | 0.0302 | 5.03 | 5.56 | 5.77 | 17.3 | 24.4 | 100 | 10.0-150 | | | 3.77 | 33 |
| 1,2,4-Trimethylbenzene | 0.0302 | 17.0 | 16.6 | 16.4 | 0.000 | 0.000 | 100 | 10.0-151 | V | V | 1.39 | 34 |
| 1,3,5-Trimethylbenzene | 0.0302 | 3.37 | 4.18 | 4.32 | 27.1 | 31.7 | 100 | 10.0-150 | | | 3.30 | 33 |
| Vinyl chloride | 0.0302 | U | 0.545 | 0.675 | 18.1 | 22.4 | 100 | 10.0-150 | | | 21.3 | 29 |
| Xylenes, Total | 0.0905 | 6.02 | 9.14 | 9.84 | 34.6 | 42.3 | 100 | 10.0-150 | | | 7.37 | 31 |
| Vinyl acetate | 0.151 | U | 3.47 | 4.29 | 23.0 | 28.5 | 100 | 10.0-160 | | | 21.3 | 40 |
| *(S) Toluene-d8* | | | | | *106* | *106* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *87.8* | *88.1* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *91.2* | *89.3* | | *64.0-132* | | | | |

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

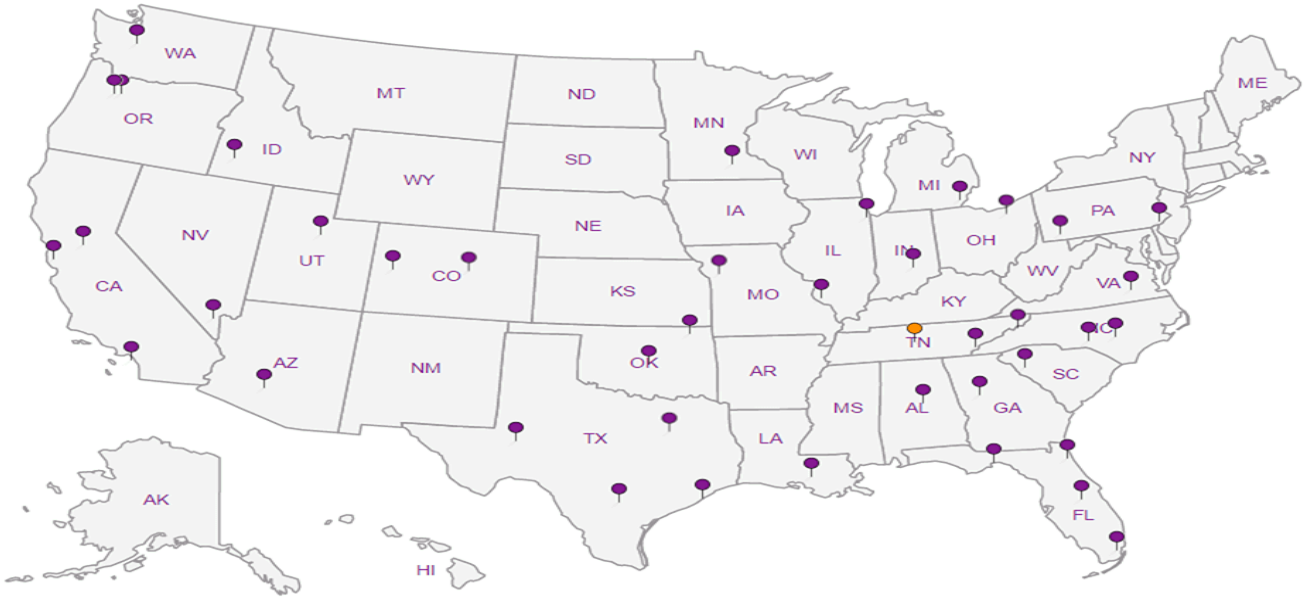
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-205-10 | GRAB | SS | 10 | 8/30/17 | 0930 | 5 | X | | X | X | | | | | | | | -01 |
| B-205-55 | | SS | 55 | | 1135 | 5 | X | | X | X | | | | | | | | -02 |
| ~~B-MW~~ B-205-40-W | | ~~GW~~ SS | 40 | | 1030 | 6 | | X | ~~X~~ | ~~X~~ | X | | | | | | | -03 |
| ~~B-~~ MW-140-15 | | SS | 15 | | 1030 | 4 | | | X | X | | | | | | | | -04 |
| ~~B~~ MW-140-25 | | SS | 25 | | 1100 | 4 | | | X | X | | | | | | | | -05 |
| ~~B~~ MW-140-35 | | SS | 35 | | 1135 | 4 | | | X | X | | | | | | | | -06 |
| ~~B-~~ B-205-65 | | SS | 65 | | 1220 | 5 | X | | X | X | | | | | | | | -07 |
| B-205-75 | | SS | 75 | | 1500 | 5 | X | | X | X | | | | | | | | -08 |
| B-904-50 | | SS | 50 | | 1605 | 5 | X | | X | X | | | | | | | | -09 |
| ~~B~~ MW-140-45 | ↓ | SS | 45 | ↓ | 1220 | 4 | | | X | X | | | | | | | | -10 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 7474 0921 0241

Relinquished by: (Signature) — Date: 8/30/17 — Time: 1630 — Received by: (Signature)

Relinquished by: (Signature) — Date: — Time: — Received by: (Signature)

Relinquished by: (Signature) — Date: — Time: — Received for lab by: (Signature) Kelly Thum — Date: 8/31/17 — Time: 0845

Trip Blank Received: Yes / No
HCL / MeOH
TBR

Temp: 5.1 °C — Bottles Received: 59

If preservation required by Login: Date/Time

Hold: — Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: __N? Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Chain of Custody Page 1 of 2

ESC LABORATORIES
a subsidiary of Environmental

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L933267

Table B169

Acctnum: PESENVSWA
Template: T126584
Prelogin: P613271
TSR: 110 - Brian Ford
PB:

Shipped Via: FedEX Ground

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~B~~ MW-140-55 | GRAB | SS | 55 | 8/30/17 | 1320 | 4 | | | X | X | | | | | | | | -11 |
| ~~B~~ MW-140-65 | ↓ | SS | 65 | ↓ | 1435 | 4 | | | X | X | | | | | | | | -12 |
| ~~B~~ MW-140-75 | ↓ | SS | 75 | ↓ | 1535 | 4 | | | X | X | | | | | | | | -13 |
| ~~B~~ TRIPBLANK-083017 | NA | ~~NA SS~~ | NA | 8/8/17 | NA | ~~1~~ 2 | | | ~~X~~ | ~~X~~ | X | | | | | | | -14 |
| B- | | SS | | | | 4 | | | X | X | | | | | | | | |
| B- | | SS | | | | 4 | | | X | X | | | | | | | | |
| B- | | SS | | | | 4 | | | X | X | | | | | | | | |
| B- | | SS | | | | 4 | | | X | X | | | | | | | | |
| B- | | SS | | | | 4 | | | X | X | | | | | | | | |
| B- | | SS | | | | 4 | | | X | X | | | | | | | | |
| B- | | SS | | | | 4 | | | X | X | | | | | | | | |

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LABORATORIES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L933267

Table #

Acctnum: PESENVSWA
Template: T126584
Prelogin: P613271
TSR: 110 - Brian Ford
PB:
Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 7474 0921 0271

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 8/30/17 | 1630 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| | | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | Kellythun |

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 5.7 °C Bottles Received: 59

Date: 8/31/17 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

# MEMORANDUM

**TO:** Project File **DATE:** September 21, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** August 30, 2017 – Soil and Groundwater Samples

**LAB:** ESC Lab ID L933267

---

Twelve (12) soil samples including a field duplicate, one (1) groundwater sample, and a trip blank were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on August 30, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L933267. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L933267 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

### Sample Collection and Preservation

Samples were collected on August 30, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 5.7 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

### Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. Holding time criteria were not met:

- Soil samples were collected on August 30, 2017 and analyzed for percent solids on September 7, 2017 slightly beyond the recommended seven day hold. No action is taken in this case as samples were appropriately preserved and it is unlikely that the holding time exceedances significantly impacted sample results.

### Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable and ESC's notes do not indicate any calibration issues.

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs) with the following exception:

- Analytical batch WG1015996: Low levels of carbon disulfide and iodomethane were detected below the reporting limit in the method blank analyzed on September 1, 2017. No action is taken as these compounds were not detected in the associated sample.

*NWTPH-Gx Method:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDL.

*Total Solids by SM 2540 G 2011:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was collected and submitted for analysis. The target analytes (VOCs) were not detected in the trip blank at or above the reported detection limits (RDLs) with the following exception:

- A low level of acetone was detected below the reporting limit in the trip blank. No action was taken since acetone was not detected in the associated samples.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate (B-205-75 and B904-50) results are comparable and less than 30% RPD with the following exception:

- Field duplicate RPD result for tetrachloroethene is greater than 30%. **Sample B-205-75 and B904-50 results for the above mentioned compounds are estimated and qualified (J).**

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to LCS/LCSDs or MS/MSDs results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on a client sample from another SDG, and client sample B-904-50. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSDs were analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters.

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPDs for the control analyte (gasoline) are within the laboratory control criteria for soils and waters.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on client sample B-205-10. The MS/MSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils with the following exceptions:

- MS/MSD (Batch WG1016266) RPD values for compounds bromodichloromethane, bromomethane, iodomethane, dibromomethane, 1,2-dichloroethane, 1,3-dichloropropane, cis-1,3-dichloropropene, 2-hexanone, and styrene are above laboratory acceptance criteria and qualified by the laboratory (J3). No action is taken in these cases since the spikes were within criteria but recovered wide. MS/MSD % Rs for carbon disulfide and n-hexane are low and below acceptance criteria. **Associated parent sample B-205-10 result for carbon disulfide and n-hexane are estimated and qualified (UJ).** MS/MSD % R's for 1,2,4-trimethylbenzene were not recovered because the sample amount is greater than four times the spike concentration and was qualified (V) by the laboratory. No action taken in this case. Refer to LCS/LCSD results for accuracy and precision data.

- For the water sample refer to LCS/LCSD results for accuracy and precision data.

*NWTPH-Gx Method:*
MS/MSDs were analyzed by the NWTPH-Gx method on a non-client sample within the analytical batches. The MS/MSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for waters. For soils refer to LCS/LCSD results for precision and accuracy results.

**Other Quality Control Issues**

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Samples B-205-55 and MW-140-75 were not reanalyzed at a lower dilution as there were no low level sodium bisulfite vials remaining for these samples. No action was taken other than to note this.

**Compound Identification and Quantitation Limits**

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

**Data Assessment**

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.9 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 274 | | 4.09 | 12.1 | 100 | 09/03/2017 18:33 | WG1016318 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.4* | | | *77.0-120* | | *09/03/2017 18:33* | WG1016318 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 1.21 | 6.03 | 100 | 09/04/2017 19:52 | WG1016266 |
| Acrylonitrile | U | | 0.216 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |
| Benzene | 0.304 | | 0.0326 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Bromobenzene | U | | 0.0343 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Bromodichloromethane | U | J3 | 0.0306 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Bromochloromethane | U | | 0.0470 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| Bromoform | U | | 0.0511 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Bromomethane | U | J3 | 0.162 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| n-Butylbenzene | 0.973 | | 0.0311 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| sec-Butylbenzene | 0.642 | | 0.0242 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| tert-Butylbenzene | U | | 0.0248 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Carbon disulfide | U UJ | J6 | 0.0267 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Carbon tetrachloride | U | | 0.0396 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Chlorobenzene | U | | 0.0256 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Chlorodibromomethane | U | | 0.0450 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Chloroethane | U | | 0.114 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| Chloroform | U | | 0.0276 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| Chloromethane | U | | 0.0452 | 0.302 | 100 | 09/04/2017 19:52 | WG1016266 |
| 2-Chlorotoluene | U | | 0.0363 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 4-Chlorotoluene | U | | 0.0289 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.127 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.0414 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Dibromomethane | U | J3 | 0.0461 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.0368 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.0288 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.0273 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.0860 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.0240 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2-Dichloroethane | U | J3 | 0.0320 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.0365 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| cis-1,2-Dichloroethene | U | | 0.0283 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.0318 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.0432 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.0382 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,3-Dichloropropane | U | J3 | 0.0250 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| cis-1,3-Dichloropropene | U | J3 | 0.0316 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.0322 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.0938 | 0.302 | 100 | 09/04/2017 19:52 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.0336 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Di-isopropyl ether | U | | 0.0299 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Ethylbenzene | 4.74 | | 0.0358 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.0412 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 2-Hexanone | U | J3 | 0.165 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |
| n-Hexane | U UJ | J6 | 0.0350 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.305 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |
| Isopropylbenzene | 0.851 | | 0.0293 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| p-Isopropyltoluene | 0.255 | | 0.0246 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.564 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |
| Methylene Chloride | U | | 0.121 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.227 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |
| Methyl tert-butyl ether | U | | 0.0256 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Naphthalene | 5.21 | | 0.121 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| n-Propylbenzene | 2.84 | | 0.0248 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Styrene | U | J3 | 0.0282 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0318 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0440 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0440 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Tetrachloroethene | U | | 0.0333 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Toluene | 0.372 J | J | 0.0523 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.0369 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.0468 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.0345 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.0334 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Trichloroethene | U | | 0.0336 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Trichlorofluoromethane | U | | 0.0461 | 0.603 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.0894 | 0.302 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2,4-Trimethylbenzene | 17.0 | V | 0.0254 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,2,3-Trimethylbenzene | 5.03 | | 0.0346 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| 1,3,5-Trimethylbenzene | 3.37 | | 0.0321 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Vinyl acetate | U | | 0.288 | 1.21 | 100 | 09/04/2017 19:52 | WG1016266 |
| Vinyl chloride | U | | 0.0351 | 0.121 | 100 | 09/04/2017 19:52 | WG1016266 |
| Xylenes, Total | 6.02 | | 0.0842 | 0.362 | 100 | 09/04/2017 19:52 | WG1016266 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/04/2017 19:52* | WG1016266 |
| *(S) Dibromofluoromethane* | *88.5* | | | *74.0-131* | | *09/04/2017 19:52* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *90.7* | | | *64.0-132* | | *09/04/2017 19:52* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.6 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0396 | 0.117 | 1 | 09/03/2017 18:57 | WG1016318 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.3* | | | *77.0-120* | | *09/03/2017 18:57* | WG1016318 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0117 | 0.0584 | 1 | 09/04/2017 20:13 | WG1016266 |
| Acrylonitrile | U | | 0.00209 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Benzene | U | | 0.000315 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Bromobenzene | U | | 0.000332 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Bromodichloromethane | U | | 0.000297 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Bromochloromethane | U | | 0.000456 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| Bromoform | U | | 0.000495 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Bromomethane | U | | 0.00157 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| n-Butylbenzene | U | | 0.000301 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| sec-Butylbenzene | U | | 0.000235 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| tert-Butylbenzene | U | | 0.000241 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Carbon disulfide | 0.00157 | | 0.000258 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Carbon tetrachloride | U | | 0.000383 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Chlorobenzene | U | | 0.000248 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Chlorodibromomethane | U | | 0.000436 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Chloroethane | U | | 0.00111 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| Chloroform | U | | 0.000268 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| Chloromethane | U | | 0.000438 | 0.00292 | 1 | 09/04/2017 20:13 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000352 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000280 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00123 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000401 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Dibromomethane | U | | 0.000446 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000356 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000279 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000264 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000833 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000232 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000310 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000354 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| cis-1,2-Dichloroethene | 0.0155 | | 0.000275 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000308 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000418 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000370 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000242 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000306 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000312 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000909 | 0.00292 | 1 | 09/04/2017 20:13 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000326 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Di-isopropyl ether | U | | 0.000290 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Ethylbenzene | U | | 0.000347 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000400 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 2-Hexanone | U | | 0.00160 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |
| n-Hexane | 0.00466 | J | 0.000339 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00296 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Isopropylbenzene | U | | 0.000284 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000238 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00547 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Methylene Chloride | U | | 0.00117 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00220 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Methyl tert-butyl ether | U | | 0.000248 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Naphthalene | U | | 0.00117 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| n-Propylbenzene | U | | 0.000241 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Styrene | U | | 0.000273 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000308 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000426 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000426 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Tetrachloroethene | 0.0625 | | 0.000322 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Toluene | U | | 0.000507 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000358 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000453 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000334 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000324 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Trichloroethene | 0.00923 | | 0.000326 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000446 | 0.00584 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000866 | 0.00292 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.00617 | 0.0292 | 25 | 09/07/2017 15:14 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000335 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000311 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Vinyl acetate | U | | 0.00279 | 0.0117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Vinyl chloride | 0.00562 | | 0.000340 | 0.00117 | 1 | 09/04/2017 20:13 | WG1016266 |
| Xylenes, Total | U | | 0.000815 | 0.00350 | 1 | 09/04/2017 20:13 | WG1016266 |
| *(S) Toluene-d8* | *91.1* | | | *80.0-120* | | *09/07/2017 15:14* | WG1016266 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/04/2017 20:13* | WG1016266 |
| *(S) Dibromofluoromethane* | *92.1* | | | *74.0-131* | | *09/04/2017 20:13* | WG1016266 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/07/2017 15:14* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *87.5* | | | *64.0-132* | | *09/04/2017 20:13* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *99.8* | | | *64.0-132* | | *09/07/2017 15:14* | WG1016266 |

Sample Narrative:

L933267-02 WG1016266: No low level sodium bisulfite vials remaining for analysis.

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 6550 | | 31.6 | 100 | 1 | 09/03/2017 16:39 | WG1016529 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.1* | | | *77.0-122* | | *09/03/2017 16:39* | WG1016529 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 105 | 2500 | 100 | 09/06/2017 17:31 | WG1016167 |
| Acrylonitrile | U | | 87.3 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |
| Benzene | U | | 8.96 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Bromobenzene | U | | 13.3 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Bromodichloromethane | U | | 8.00 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Bromochloromethane | U | | 14.5 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Bromoform | U | | 18.6 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Bromomethane | U | | 15.7 | 250 | 100 | 09/08/2017 02:19 | WG1016167 |
| n-Butylbenzene | U | | 14.3 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| sec-Butylbenzene | U | | 13.4 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| tert-Butylbenzene | U | | 18.3 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Carbon disulfide | U | | 10.1 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Carbon tetrachloride | U | | 15.9 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Chlorobenzene | U | | 14.0 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Chlorodibromomethane | U | | 12.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Chloroethane | U | | 14.1 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| Chloroform | U | | 8.60 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Chloromethane | U | | 15.3 | 125 | 100 | 09/06/2017 17:31 | WG1016167 |
| 2-Chlorotoluene | U | | 11.1 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 4-Chlorotoluene | U | | 9.72 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2-Dibromo-3-Chloropropane | U | | 32.5 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2-Dibromoethane | U | | 19.3 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Dibromomethane | U | | 11.7 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2-Dichlorobenzene | U | | 10.1 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,3-Dichlorobenzene | U | | 13.0 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,4-Dichlorobenzene | U | | 12.1 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Dichlorodifluoromethane | U | | 12.7 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1-Dichloroethane | U | | 11.4 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2-Dichloroethane | U | | 10.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1-Dichloroethene | U | | 18.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| cis-1,2-Dichloroethene | 5670 | | 9.33 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| trans-1,2-Dichloroethene | 30.1 J | J | 15.2 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2-Dichloropropane | U | | 19.0 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1-Dichloropropene | U | | 12.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,3-Dichloropropane | U | | 14.7 | 100 | 100 | 09/06/2017 17:31 | WG1016167 |
| cis-1,3-Dichloropropene | U | | 9.76 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| trans-1,3-Dichloropropene | U | | 22.2 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| trans-1,4-Dichloro-2-butene | U | | 25.7 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |
| 2,2-Dichloropropane | U | | 9.29 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Di-isopropyl ether | U | | 9.24 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Ethylbenzene | U | | 15.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Hexachloro-1,3-butadiene | U | | 15.7 | 100 | 100 | 09/06/2017 17:31 | WG1016167 |
| 2-Hexanone | U | | 75.7 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |
| n-Hexane | U | | 30.5 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |
| Iodomethane | U | | 37.7 | 1000 | 100 | 09/06/2017 17:31 | WG1016167 |
| Isopropylbenzene | U | | 12.6 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| p-Isopropyltoluene | U | | 13.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 2-Butanone (MEK) | U | | 128 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 107 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| 4-Methyl-2-pentanone (MIBK) | U | | 82.3 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |
| Methyl tert-butyl ether | U | | 10.2 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Naphthalene | U | | 17.4 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| n-Propylbenzene | U | | 16.2 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Styrene | U | | 11.7 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1,1,2-Tetrachloroethane | U | | 12.0 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1,2,2-Tetrachloroethane | U | | 13.0 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1,2-Trichlorotrifluoroethane | U | | 16.4 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Tetrachloroethene | 10300 | | 19.9 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Toluene | 55.6 | | 41.2 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2,3-Trichlorobenzene | U | | 16.4 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2,4-Trichlorobenzene | U | | 35.5 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1,1-Trichloroethane | U | | 9.40 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,1,2-Trichloroethane | U | | 18.6 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Trichloroethene | 1130 | | 15.3 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Trichlorofluoromethane | U | | 13.0 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2,3-Trichloropropane | U | | 24.7 | 250 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2,4-Trimethylbenzene | U | | 12.3 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,2,3-Trimethylbenzene | U | | 7.39 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| 1,3,5-Trimethylbenzene | U | | 12.4 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Vinyl acetate | U | | 64.5 | 500 | 100 | 09/06/2017 17:31 | WG1016167 |
| Vinyl chloride | 1010 | | 11.8 | 50.0 | 100 | 09/06/2017 17:31 | WG1016167 |
| Xylenes, Total | U | | 31.6 | 150 | 100 | 09/06/2017 17:31 | WG1016167 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/06/2017 17:31* | WG1016167 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/08/2017 02:19* | WG1016167 |
| *(S) Dibromofluoromethane* | *106* | | | *76.0-123* | | *09/08/2017 02:19* | WG1016167 |
| *(S) Dibromofluoromethane* | *112* | | | *76.0-123* | | *09/06/2017 17:31* | WG1016167 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *80.0-120* | | *09/08/2017 02:19* | WG1016167 |
| *(S) 4-Bromofluorobenzene* | *113* | | | *80.0-120* | | *09/06/2017 17:31* | WG1016167 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.7 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0570 | 1 | 09/04/2017 20:34 | WG1016266 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Bromobenzene | U | | 0.000324 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Bromodichloromethane | U | | 0.000290 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Bromochloromethane | U | | 0.000445 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| Bromoform | U | | 0.000484 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Bromomethane | U | | 0.00153 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Carbon disulfide | U | | 0.000252 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Carbon tetrachloride | U | | 0.000374 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Chlorodibromomethane | U | | 0.000425 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Chloroethane | U | | 0.00108 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| Chloroform | U | | 0.000261 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| Chloromethane | U | | 0.000428 | 0.00285 | 1 | 09/04/2017 20:34 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000274 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Dibromomethane | U | | 0.000436 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000273 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000258 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000813 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000346 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| cis-1,2-Dichloroethene | U | | 0.000268 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000301 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000408 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000361 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000299 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000304 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000887 | 0.00285 | 1 | 09/04/2017 20:34 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Di-isopropyl ether | U | | 0.000283 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Ethylbenzene | U | | 0.000339 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000390 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |
| n-Hexane | U | | 0.000331 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Iodomethane | U | | 0.00289 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000233 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00534 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Methylene Chloride | U | | 0.00114 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Naphthalene | U | | 0.00114 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000416 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000416 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Tetrachloroethene | U | | 0.000315 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Toluene | U | | 0.000495 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000442 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000316 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Trichloroethene | U | | 0.000318 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000436 | 0.00570 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000845 | 0.00285 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000241 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000327 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000303 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Vinyl acetate | U | | 0.00273 | 0.0114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Vinyl chloride | U | | 0.000332 | 0.00114 | 1 | 09/04/2017 20:34 | WG1016266 |
| Xylenes, Total | U | | 0.000796 | 0.00342 | 1 | 09/04/2017 20:34 | WG1016266 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/04/2017 20:34* | WG1016266 |
| *(S) Dibromofluoromethane* | *95.1* | | | *74.0-131* | | *09/04/2017 20:34* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *82.9* | | | *64.0-132* | | *09/04/2017 20:34* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.2 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0108 | 0.0542 | 1 | 09/04/2017 20:54 | WG1016266 |
| Acrylonitrile | U | | 0.00194 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Benzene | U | | 0.000293 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Bromobenzene | U | | 0.000308 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Bromochloromethane | U | | 0.000423 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| Bromoform | U | | 0.000460 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Bromomethane | U | | 0.00145 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| n-Butylbenzene | U | | 0.000280 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| sec-Butylbenzene | U | | 0.000218 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Carbon disulfide | 0.000278 J | J | 0.000240 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Carbon tetrachloride | U | | 0.000356 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Chlorobenzene | U | | 0.000230 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Chlorodibromomethane | U | | 0.000405 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Chloroethane | U | | 0.00103 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| Chloroform | U | | 0.000248 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| Chloromethane | U | | 0.000407 | 0.00271 | 1 | 09/04/2017 20:54 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000326 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000260 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000372 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Dibromomethane | U | | 0.000414 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000259 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000245 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000773 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000287 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000329 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| cis-1,2-Dichloroethene | 0.00199 | | 0.000255 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000286 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000388 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000344 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000284 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000844 | 0.00271 | 1 | 09/04/2017 20:54 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Di-isopropyl ether | U | | 0.000269 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Ethylbenzene | U | | 0.000322 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000371 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 2-Hexanone | U | | 0.00149 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |
| n-Hexane | 0.000406 J | J | 0.000314 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Iodomethane | U | | 0.00274 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Isopropylbenzene | U | | 0.000264 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00508 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Methylene Chloride | U | | 0.00108 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000230 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Naphthalene | U | | 0.00108 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Styrene | U | | 0.000254 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000286 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000396 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000396 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Tetrachloroethene | 0.147 | | 0.000299 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Toluene | U | | 0.000471 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000332 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000421 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000310 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000300 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Trichloroethene | 0.0107 | | 0.000303 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000414 | 0.00542 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000804 | 0.00271 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000229 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000311 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Vinyl acetate | U | | 0.00259 | 0.0108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Vinyl chloride | U | | 0.000316 | 0.00108 | 1 | 09/04/2017 20:54 | WG1016266 |
| Xylenes, Total | U | | 0.000757 | 0.00325 | 1 | 09/04/2017 20:54 | WG1016266 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/04/2017 20:54* | WG1016266 |
| *(S) Dibromofluoromethane* | *91.8* | | | *74.0-131* | | *09/04/2017 20:54* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *88.1* | | | *64.0-132* | | *09/04/2017 20:54* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.8 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.291 | 1.46 | 25 | 09/04/2017 21:15 | WG1016266 |
| Acrylonitrile | U | | 0.0522 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Benzene | U | | 0.00786 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Bromobenzene | U | | 0.00827 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Bromodichloromethane | U | | 0.00740 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Bromochloromethane | U | | 0.0114 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| Bromoform | U | | 0.0124 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Bromomethane | U | | 0.0390 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| n-Butylbenzene | U | | 0.00752 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| sec-Butylbenzene | U | | 0.00585 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| tert-Butylbenzene | U | | 0.00600 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Carbon disulfide | U | | 0.00643 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Carbon tetrachloride | U | | 0.00955 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Chlorobenzene | U | | 0.00618 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Chlorodibromomethane | U | | 0.0109 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Chloroethane | U | | 0.0275 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| Chloroform | U | | 0.00666 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| Chloromethane | U | | 0.0109 | 0.0728 | 25 | 09/04/2017 21:15 | WG1016266 |
| 2-Chlorotoluene | U | | 0.00876 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 4-Chlorotoluene | U | | 0.00699 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0305 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.0100 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Dibromomethane | U | | 0.0111 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.00888 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.00697 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.00658 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.0207 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.00580 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.00771 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.00883 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| cis-1,2-Dichloroethene | 0.387 | | 0.00685 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.00769 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.0104 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.00923 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.00604 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.00763 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.00778 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.0226 | 0.0728 | 25 | 09/04/2017 21:15 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.00813 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Di-isopropyl ether | U | | 0.00722 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Ethylbenzene | U | | 0.00865 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.00996 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 2-Hexanone | U | | 0.0398 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |
| n-Hexane | U | | 0.00845 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Iodomethane | U | | 0.0736 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Isopropylbenzene | U | | 0.00708 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| p-Isopropyltoluene | U | | 0.00594 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.136 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Methylene Chloride | U | | 0.0291 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0548 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.00618 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Naphthalene | U | | 0.0291 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| n-Propylbenzene | U | | 0.00600 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Styrene | U | | 0.00682 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00769 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0106 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0106 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Tetrachloroethene | 15.1 | | 0.0643 | 0.233 | 200 | 09/07/2017 15:40 | WG1016266 |
| Toluene | U | | 0.0126 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.00891 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.0113 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.00833 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.00806 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Trichloroethene | 0.629 | | 0.00813 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Trichlorofluoromethane | U | | 0.0111 | 0.146 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.0216 | 0.0728 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.00615 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.00837 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.00775 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Vinyl acetate | U | | 0.0697 | 0.291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Vinyl chloride | 0.0107 J | J | 0.00848 | 0.0291 | 25 | 09/04/2017 21:15 | WG1016266 |
| Xylenes, Total | U | | 0.0203 | 0.0874 | 25 | 09/04/2017 21:15 | WG1016266 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/04/2017 21:15* | WG1016266 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/07/2017 15:40* | WG1016266 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/07/2017 15:40* | WG1016266 |
| *(S) Dibromofluoromethane* | *86.9* | | | *74.0-131* | | *09/04/2017 21:15* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *99.8* | | | *64.0-132* | | *09/07/2017 15:40* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *86.6* | | | *64.0-132* | | *09/04/2017 21:15* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.4 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0359 | 0.106 | 1 | 09/03/2017 20:32 | WG1016318 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.2* | | | *77.0-120* | | *09/03/2017 20:32* | WG1016318 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0106 | 0.0529 | 1 | 09/04/2017 21:35 | WG1016266 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Benzene | U | | 0.000286 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Bromobenzene | U | | 0.000301 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Bromodichloromethane | U | | 0.000269 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Bromochloromethane | U | | 0.000413 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| Bromoform | U | | 0.000449 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Bromomethane | U | | 0.00142 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| n-Butylbenzene | U | | 0.000273 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| sec-Butylbenzene | U | | 0.000213 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| tert-Butylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Carbon disulfide | 0.00148 | | 0.000234 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Carbon tetrachloride | U | | 0.000347 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Chlorobenzene | U | | 0.000224 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Chlorodibromomethane | U | | 0.000395 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Chloroethane | U | | 0.00100 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| Chloroform | U | | 0.000242 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| Chloromethane | U | | 0.000397 | 0.00265 | 1 | 09/04/2017 21:35 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000319 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000254 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000363 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Dibromomethane | U | | 0.000405 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000323 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000253 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000239 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000755 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000211 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000281 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000321 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| cis-1,2-Dichloroethene | 0.00390 | | 0.000249 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000280 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000379 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000336 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000219 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000277 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000283 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000824 | 0.00265 | 1 | 09/04/2017 21:35 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000295 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Di-isopropyl ether | U | | 0.000263 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Ethylbenzene | U | | 0.000314 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000362 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 2-Hexanone | U | | 0.00145 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |
| n-Hexane | 0.00583 | J | 0.000307 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00268 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Isopropylbenzene | U | | 0.000257 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000216 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00496 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Methylene Chloride | U | | 0.00106 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00199 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Methyl tert-butyl ether | U | | 0.000224 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Naphthalene | U | | 0.00106 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| n-Propylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Styrene | U | | 0.000248 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000280 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000387 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000387 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Tetrachloroethene | 0.0296 | | 0.000292 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Toluene | U | | 0.000460 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000324 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000411 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000303 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000293 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Trichloroethene | 0.00582 | | 0.000295 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000405 | 0.00529 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000785 | 0.00265 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000223 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000304 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000282 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Vinyl acetate | U | | 0.00253 | 0.0106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Vinyl chloride | 0.000378 J | J | 0.000308 | 0.00106 | 1 | 09/04/2017 21:35 | WG1016266 |
| Xylenes, Total | U | | 0.000739 | 0.00318 | 1 | 09/04/2017 21:35 | WG1016266 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/04/2017 21:35* | WG1016266 |
| *(S) Dibromofluoromethane* | *92.3* | | | *74.0-131* | | *09/04/2017 21:35* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *87.1* | | | *64.0-132* | | *09/04/2017 21:35* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.4 | | 1 | 09/07/2017 13:21 | WG1017613 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0107 | 0.0535 | 1 | 09/04/2017 21:56 | WG1016266 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Benzene | U | | 0.000289 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Bromobenzene | U | | 0.000304 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Bromochloromethane | U | | 0.000418 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| Bromoform | U | | 0.000454 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Bromomethane | U | | 0.00144 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Carbon disulfide | 0.00121 | | 0.000237 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Carbon tetrachloride | U | | 0.000351 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Chloroethane | U | | 0.00101 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| Chloroform | U | | 0.000245 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| Chloromethane | U | | 0.000402 | 0.00268 | 1 | 09/04/2017 21:56 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000367 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Dibromomethane | U | | 0.000409 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000764 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| cis-1,2-Dichloroethene | 0.000585 | J J | 0.000252 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000833 | 0.00268 | 1 | 09/04/2017 21:56 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000299 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Di-isopropyl ether | U | | 0.000266 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000366 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |
| n-Hexane | 0.00452 | J J | 0.000311 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00501 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Methylene Chloride | U | | 0.00107 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Naphthalene | U | | 0.00107 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000391 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000391 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Tetrachloroethene | 0.00308 | J | 0.000296 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Toluene | U | | 0.000465 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000416 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000297 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Trichloroethene | 0.000399 | J J | 0.000299 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000409 | 0.00535 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000794 | 0.00268 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000307 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Vinyl chloride | U | | 0.000312 | 0.00107 | 1 | 09/04/2017 21:56 | WG1016266 |
| Xylenes, Total | U | | 0.000748 | 0.00321 | 1 | 09/04/2017 21:56 | WG1016266 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/04/2017 21:56* | WG1016266 |
| *(S) Dibromofluoromethane* | *93.2* | | | *74.0-131* | | *09/04/2017 21:56* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *87.6* | | | *64.0-132* | | *09/04/2017 21:56* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.2 | | 1 | 09/07/2017 11:37 | WG1017615 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0107 | 0.0536 | 1 | 09/04/2017 22:17 | WG1016266 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Benzene | U | | 0.000290 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Bromobenzene | U | | 0.000305 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Bromochloromethane | U | | 0.000418 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| Bromoform | U | | 0.000455 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Bromomethane | U | | 0.00144 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| n-Butylbenzene | U | | 0.000277 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| sec-Butylbenzene | U | | 0.000216 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Carbon disulfide | 0.000877 | J J | 0.000237 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Carbon tetrachloride | U | | 0.000352 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Chlorodibromomethane | U | | 0.000400 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Chloroethane | U | | 0.00101 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| Chloroform | U | | 0.000246 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| Chloromethane | U | | 0.000402 | 0.00268 | 1 | 09/04/2017 22:17 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000323 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000368 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Dibromomethane | U | | 0.000410 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000765 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000325 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| cis-1,2-Dichloroethene | 0.00170 | | 0.000252 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000384 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000340 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000835 | 0.00268 | 1 | 09/04/2017 22:17 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000299 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Di-isopropyl ether | U | | 0.000266 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Ethylbenzene | U | | 0.000319 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000367 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |
| n-Hexane | 0.00551 | J J | 0.000311 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Isopropylbenzene | U | | 0.000261 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000219 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00502 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Methylene Chloride | U | | 0.00107 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Naphthalene | U | | 0.00107 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000392 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000392 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Tetrachloroethene | 0.00954 | J | 0.000296 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Toluene | U | | 0.000466 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000416 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000307 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000297 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Trichloroethene | 0.00234 | | 0.000299 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000410 | 0.00536 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000795 | 0.00268 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000308 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Vinyl chloride | U | | 0.000312 | 0.00107 | 1 | 09/04/2017 22:17 | WG1016266 |
| Xylenes, Total | U | | 0.000749 | 0.00322 | 1 | 09/04/2017 22:17 | WG1016266 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/04/2017 22:17* | WG1016266 |
| *(S) Dibromofluoromethane* | *91.9* | | | *74.0-131* | | *09/04/2017 22:17* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *86.8* | | | *64.0-132* | | *09/04/2017 22:17* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.7 | | 1 | 09/07/2017 11:37 | WG1017615 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0107 | 0.0534 | 1 | 09/04/2017 22:37 | WG1016266 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Benzene | U | | 0.000288 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Bromobenzene | U | | 0.000303 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Bromodichloromethane | U | | 0.000271 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Bromochloromethane | U | | 0.000416 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| Bromoform | U | | 0.000452 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Bromomethane | U | | 0.00143 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| n-Butylbenzene | U | | 0.000275 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Carbon disulfide | 0.000774 J | J | 0.000236 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Carbon tetrachloride | U | | 0.000350 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Chlorobenzene | U | | 0.000226 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Chlorodibromomethane | U | | 0.000398 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Chloroethane | U | | 0.00101 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| Chloroform | U | | 0.000244 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| Chloromethane | U | | 0.000400 | 0.00267 | 1 | 09/04/2017 22:37 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000321 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000256 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000366 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Dibromomethane | U | | 0.000408 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000255 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000761 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1-Dichloroethene | 0.000324 J | J | 0.000323 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| cis-1,2-Dichloroethene | 0.0431 | | 0.000251 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000282 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000382 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000338 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000280 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000285 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000830 | 0.00267 | 1 | 09/04/2017 22:37 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000298 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Di-isopropyl ether | U | | 0.000265 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Ethylbenzene | U | | 0.000317 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000365 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 2-Hexanone | U | | 0.00146 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |
| n-Hexane | 0.00107 J | J | 0.000309 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Iodomethane | U | | 0.00270 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Isopropylbenzene | U | | 0.000259 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00499 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Methylene Chloride | U | | 0.00107 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Naphthalene | U | | 0.00107 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000282 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000390 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000390 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Tetrachloroethene | 4.27 | | 0.0589 | 0.213 | 200 | 09/07/2017 20:25 | WG1016266 |
| Toluene | U | | 0.000463 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000414 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000305 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000296 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Trichloroethene | 0.0793 | | 0.000298 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000408 | 0.00534 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000791 | 0.00267 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000306 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000284 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Vinyl acetate | U | | 0.00255 | 0.0107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Vinyl chloride | 0.00160 | | 0.000311 | 0.00107 | 1 | 09/04/2017 22:37 | WG1016266 |
| Xylenes, Total | U | | 0.000745 | 0.00320 | 1 | 09/04/2017 22:37 | WG1016266 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/07/2017 20:25* | WG1016266 |
| *(S) Toluene-d8* | *98.4* | | | *80.0-120* | | *09/04/2017 22:37* | WG1016266 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/07/2017 20:25* | WG1016266 |
| *(S) Dibromofluoromethane* | *92.3* | | | *74.0-131* | | *09/04/2017 22:37* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/07/2017 20:25* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *86.8* | | | *64.0-132* | | *09/04/2017 22:37* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.1 | | 1 | 09/07/2017 11:37 | WG1017615 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0110 | 0.0549 | 1 | 09/04/2017 22:58 | WG1016266 |
| Acrylonitrile | U | | 0.00196 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Benzene | 0.000379 J | J | 0.000296 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Bromobenzene | U | | 0.000312 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Bromodichloromethane | U | | 0.000279 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Bromochloromethane | U | | 0.000428 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| Bromoform | U | | 0.000465 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Bromomethane | U | | 0.00147 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| n-Butylbenzene | U | | 0.000283 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| tert-Butylbenzene | U | | 0.000226 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Carbon disulfide | 0.00196 | | 0.000243 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Carbon tetrachloride | U | | 0.000360 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Chlorodibromomethane | U | | 0.000409 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Chloroethane | U | | 0.00104 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| Chloroform | U | | 0.000251 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| Chloromethane | U | | 0.000412 | 0.00274 | 1 | 09/04/2017 22:58 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000330 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000263 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000376 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Dibromomethane | U | | 0.000419 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000335 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000262 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000248 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000782 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000218 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000291 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1-Dichloroethene | 0.000499 J | J | 0.000333 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| cis-1,2-Dichloroethene | 0.130 | | 0.000258 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| trans-1,2-Dichloroethene | 0.000500 J | J | 0.000290 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000393 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000348 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000227 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000288 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000293 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000854 | 0.00274 | 1 | 09/04/2017 22:58 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000306 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Di-isopropyl ether | U | | 0.000272 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Ethylbenzene | U | | 0.000326 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000375 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 2-Hexanone | U | | 0.00150 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |
| n-Hexane | 0.0134 | | 0.000318 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Iodomethane | U | | 0.00278 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Isopropylbenzene | U | | 0.000267 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000224 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00514 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Methylene Chloride | U | | 0.00110 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00206 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Naphthalene | U | | 0.00110 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| n-Propylbenzene | U | | 0.000226 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Styrene | U | | 0.000257 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000290 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000401 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000401 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Tetrachloroethene | 1.56 | | 0.00757 | 0.0274 | 25 | 09/07/2017 16:32 | WG1016266 |
| Toluene | 0.000498 J | J | 0.000476 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000426 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000314 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000304 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Trichloroethene | 0.0496 | | 0.000306 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000419 | 0.00549 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000813 | 0.00274 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000315 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000292 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Vinyl acetate | U | | 0.00262 | 0.0110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Vinyl chloride | 0.0990 | | 0.000319 | 0.00110 | 1 | 09/04/2017 22:58 | WG1016266 |
| Xylenes, Total | U | | 0.000766 | 0.00329 | 1 | 09/04/2017 22:58 | WG1016266 |
| *(S) Toluene-d8* | *98.7* | | | *80.0-120* | | *09/04/2017 22:58* | WG1016266 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/07/2017 16:32* | WG1016266 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/07/2017 16:32* | WG1016266 |
| *(S) Dibromofluoromethane* | *92.7* | | | *74.0-131* | | *09/04/2017 22:58* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *87.3* | | | *64.0-132* | | *09/04/2017 22:58* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/07/2017 16:32* | WG1016266 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.4 | | 1 | 09/07/2017 11:37 | WG1017615 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0107 | 0.0535 | 1 | 09/04/2017 23:18 | WG1016266 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Benzene | U | | 0.000289 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Bromobenzene | U | | 0.000304 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Bromochloromethane | U | | 0.000418 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| Bromoform | U | | 0.000454 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Bromomethane | U | | 0.00143 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Carbon disulfide | 0.00384 | | 0.000237 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Carbon tetrachloride | U | | 0.000351 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Chloroethane | U | | 0.00101 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| Chloroform | U | | 0.000245 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| Chloromethane | U | | 0.000402 | 0.00268 | 1 | 09/04/2017 23:18 | WG1016266 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.000367 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Dibromomethane | U | | 0.000409 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.000763 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| cis-1,2-Dichloroethene | U | | 0.000252 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.000833 | 0.00268 | 1 | 09/04/2017 23:18 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.000299 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Di-isopropyl ether | U | | 0.000266 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.000366 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |
| n-Hexane | 0.00870 | J | 0.000311 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.00501 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Methylene Chloride | U | | 0.00107 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Naphthalene | U | | 0.00107 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000283 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000391 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000391 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Tetrachloroethene | U | | 0.00746 | 0.0270 | 25.25 | 09/07/2017 16:58 | WG1016266 |
| Toluene | U | | 0.000465 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.000415 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.000297 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Trichloroethene | U | | 0.000299 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Trichlorofluoromethane | U | | 0.000409 | 0.00535 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.000793 | 0.00268 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.000307 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Vinyl chloride | U | | 0.000312 | 0.00107 | 1 | 09/04/2017 23:18 | WG1016266 |
| Xylenes, Total | U | | 0.000747 | 0.00321 | 1 | 09/04/2017 23:18 | WG1016266 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/04/2017 23:18* | WG1016266 |
| *(S) Toluene-d8* | *97.8* | | | *80.0-120* | | *09/07/2017 16:58* | WG1016266 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/07/2017 16:58* | WG1016266 |
| *(S) Dibromofluoromethane* | *95.0* | | | *74.0-131* | | *09/04/2017 23:18* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *89.0* | | | *64.0-132* | | *09/04/2017 23:18* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/07/2017 16:58* | WG1016266 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.7 | | 1 | 09/07/2017 11:37 | WG1017615 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.270 | 1.35 | 25 | 09/07/2017 17:24 | WG1016266 |
| Acrylonitrile | U | | 0.0483 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Benzene | U | | 0.00728 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Bromobenzene | U | | 0.00766 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Bromodichloromethane | U | | 0.00685 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Bromochloromethane | U | | 0.0105 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| Bromoform | U | | 0.0114 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Bromomethane | U | | 0.0361 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| n-Butylbenzene | U | | 0.00696 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| sec-Butylbenzene | U | | 0.00541 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| tert-Butylbenzene | U | | 0.00555 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Carbon disulfide | U | | 0.00595 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Carbon tetrachloride | U | | 0.00884 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Chlorobenzene | U | | 0.00572 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Chlorodibromomethane | U | | 0.0101 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Chloroethane | U | | 0.0255 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| Chloroform | U | | 0.00617 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| Chloromethane | U | | 0.0101 | 0.0674 | 25 | 09/07/2017 17:24 | WG1016266 |
| 2-Chlorotoluene | U | | 0.00811 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 4-Chlorotoluene | U | | 0.00647 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0283 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2-Dibromoethane | U | | 0.00925 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Dibromomethane | U | | 0.0103 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2-Dichlorobenzene | U | | 0.00822 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,3-Dichlorobenzene | U | | 0.00645 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,4-Dichlorobenzene | U | | 0.00609 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Dichlorodifluoromethane | U | | 0.0192 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1-Dichloroethane | U | | 0.00537 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2-Dichloroethane | U | | 0.00714 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1-Dichloroethene | U | | 0.00817 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| cis-1,2-Dichloroethene | U | | 0.00634 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| trans-1,2-Dichloroethene | U | | 0.00712 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2-Dichloropropane | U | | 0.00965 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1-Dichloropropene | U | | 0.00854 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,3-Dichloropropane | U | | 0.00559 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| cis-1,3-Dichloropropene | U | | 0.00706 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| trans-1,3-Dichloropropene | U | | 0.00720 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| trans-1,4-Dichloro-2-butene | U | | 0.0209 | 0.0674 | 25 | 09/07/2017 17:24 | WG1016266 |
| 2,2-Dichloropropane | U | | 0.00753 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Di-isopropyl ether | U | | 0.00669 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Ethylbenzene | U | | 0.00800 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Hexachloro-1,3-butadiene | U | | 0.00922 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 2-Hexanone | U | | 0.0369 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |
| n-Hexane | U | | 0.00782 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Iodomethane | U | | 0.0682 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Isopropylbenzene | U | | 0.00656 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| p-Isopropyltoluene | U | | 0.00550 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 2-Butanone (MEK) | U | | 0.126 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Methylene Chloride | U | | 0.0270 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0507 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 0.00683 J | J | 0.00572 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Naphthalene | U | | 0.0270 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| n-Propylbenzene | U | | 0.00555 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Styrene | U | | 0.00631 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00712 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00984 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00984 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Tetrachloroethene | U | | 0.00744 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Toluene | U | | 0.0116 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2,3-Trichlorobenzene | U | | 0.00825 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2,4-Trichlorobenzene | U | | 0.0105 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1,1-Trichloroethane | U | | 0.00771 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,1,2-Trichloroethane | U | | 0.00746 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Trichloroethene | U | | 0.00753 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Trichlorofluoromethane | U | | 0.0103 | 0.135 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2,3-Trichloropropane | U | | 0.0200 | 0.0674 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2,4-Trimethylbenzene | U | | 0.00569 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,2,3-Trimethylbenzene | U | | 0.00774 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| 1,3,5-Trimethylbenzene | U | | 0.00717 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Vinyl acetate | U | | 0.0645 | 0.270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Vinyl chloride | U | | 0.00785 | 0.0270 | 25 | 09/07/2017 17:24 | WG1016266 |
| Xylenes, Total | U | | 0.0188 | 0.0809 | 25 | 09/07/2017 17:24 | WG1016266 |
| *(S) Toluene-d8* | *86.9* | | | *80.0-120* | | *09/07/2017 17:24* | WG1016266 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/07/2017 17:24* | WG1016266 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/07/2017 17:24* | WG1016266 |

**Sample Narrative:**

L933267-13 WG1016266: No low level sodium bisulfite vials remaining for analysis.

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 1.42 | J | 1.05 | 25.0 | 1 | 09/08/2017 11:14 | WG1015996 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Bromomethane | U | J3 | 0.157 | 2.50 | 1 | 09/08/2017 11:14 | WG1015996 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/01/2017 10:16 | WG1015996 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/08/2017 11:14 | WG1015996 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/08/2017 11:14 | WG1015996 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| Iodomethane | U | J3 | 0.377 | 10.0 | 1 | 09/08/2017 11:14 | WG1015996 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/08/2017 11:14 | WG1015996 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/08/2017 11:14 | WG1015996 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/08/2017 11:14 | WG1015996 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/01/2017 10:16 | WG1015996 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/01/2017 10:16 | WG1015996 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/01/2017 10:16 | WG1015996 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/08/2017 11:14* | WG1015996 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/01/2017 10:16* | WG1015996 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *09/01/2017 10:16* | WG1015996 |
| *(S) Dibromofluoromethane* | *106* | | | *76.0-123* | | *09/08/2017 11:14* | WG1015996 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *80.0-120* | | *09/08/2017 11:14* | WG1015996 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *80.0-120* | | *09/01/2017 10:16* | WG1015996 |

# ANALYTICAL REPORT

September 11, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L933455 |
| Samples Received: | 09/01/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |

Report To: Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## MW-140-90 L933455-01 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 08/30/17 17:40 | 09/01/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017807 | 1 | 09/08/17 09:09 | 09/08/17 09:23 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016411 | 1 | 08/30/17 17:40 | 09/02/17 20:18 | ACG |

## MW-137-25 L933455-02 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 08/31/17 09:50 | 09/01/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017807 | 1 | 09/08/17 09:09 | 09/08/17 09:23 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1016832 | 1 | 08/31/17 09:50 | 09/05/17 19:57 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016411 | 1 | 08/31/17 09:50 | 09/02/17 20:44 | ACG |

## MW-140-110 L933455-03 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 08/31/17 10:45 | 09/01/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017807 | 1 | 09/08/17 09:09 | 09/08/17 09:23 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016411 | 1 | 08/31/17 10:45 | 09/02/17 21:10 | ACG |

## MW-137-45 L933455-04 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 08/31/17 11:40 | 09/01/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017807 | 1 | 09/08/17 09:09 | 09/08/17 09:23 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1016832 | 1 | 08/31/17 11:40 | 09/05/17 20:19 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016411 | 25 | 08/31/17 11:40 | 09/05/17 16:45 | ACG |

## MW-140-130 L933455-05 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 08/31/17 12:40 | 09/01/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017807 | 1 | 09/08/17 09:09 | 09/08/17 09:23 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016411 | 1 | 08/31/17 12:40 | 09/05/17 17:11 | ACG |

## MW-140-140 L933455-06 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 08/31/17 14:15 | 09/01/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017807 | 1 | 09/08/17 09:09 | 09/08/17 09:23 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016411 | 25 | 08/31/17 14:15 | 09/06/17 12:42 | BMB |

## MW-137-75 L933455-07 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 08/31/17 15:25 | 09/01/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1017937 | 1 | 09/07/17 16:33 | 09/07/17 16:54 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016411 | 1 | 08/31/17 15:25 | 09/05/17 18:02 | ACG |

## MW-137-76-W L933455-08 GW

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 08/31/17 15:30 | 09/01/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1016529 | 5 | 09/03/17 18:37 | 09/03/17 18:37 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016388 | 5 | 09/02/17 17:10 | 09/02/17 17:10 | ACG |

## B-905-60-W L933455-09 GW

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 08/31/17 15:45 | 09/01/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1016529 | 1 | 09/03/17 19:01 | 09/03/17 19:01 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1016388 | 5 | 09/02/17 17:30 | 09/02/17 17:30 | ACG |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.0 | | 1 | 09/08/2017 09:23 | WG1017807 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0118 | 0.0588 | 1 | 09/02/2017 20:18 | WG1016411 |
| Acrylonitrile | U | | 0.00211 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Benzene | U | | 0.000318 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Bromobenzene | U | | 0.000334 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Bromodichloromethane | U | | 0.000299 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Bromochloromethane | U | | 0.000459 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| Bromoform | U | | 0.000499 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Bromomethane | U | | 0.00158 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| n-Butylbenzene | U | | 0.000303 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| sec-Butylbenzene | U | J4 | 0.000236 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| tert-Butylbenzene | U | | 0.000242 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Carbon disulfide | U | | 0.000260 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Carbon tetrachloride | U | | 0.000386 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Chlorobenzene | U | | 0.000249 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Chlorodibromomethane | U | | 0.000439 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Chloroethane | U | | 0.00111 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| Chloroform | U | | 0.000269 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| Chloromethane | U | | 0.000441 | 0.00294 | 1 | 09/02/2017 20:18 | WG1016411 |
| 2-Chlorotoluene | U | | 0.000354 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 4-Chlorotoluene | U | | 0.000282 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2-Dibromoethane | U | | 0.000403 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Dibromomethane | U | | 0.000449 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2-Dichlorobenzene | U | | 0.000359 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,3-Dichlorobenzene | U | | 0.000281 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,4-Dichlorobenzene | U | | 0.000266 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Dichlorodifluoromethane | U | | 0.000839 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1-Dichloroethane | U | | 0.000234 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2-Dichloroethane | U | | 0.000312 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1-Dichloroethene | U | | 0.000356 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| cis-1,2-Dichloroethene | U | | 0.000276 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| trans-1,2-Dichloroethene | U | | 0.000311 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2-Dichloropropane | U | | 0.000421 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1-Dichloropropene | U | | 0.000373 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,3-Dichloropropane | U | | 0.000244 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| cis-1,3-Dichloropropene | U | | 0.000308 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| trans-1,3-Dichloropropene | U | | 0.000314 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| trans-1,4-Dichloro-2-butene | U | | 0.000915 | 0.00294 | 1 | 09/02/2017 20:18 | WG1016411 |
| 2,2-Dichloropropane | U | | 0.000328 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Di-isopropyl ether | U | | 0.000292 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Ethylbenzene | U | | 0.000349 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Hexachloro-1,3-butadiene | U | | 0.000402 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 2-Hexanone | U | | 0.00161 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |
| n-Hexane | 0.00188 | J | 0.000341 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Iodomethane | U | | 0.00298 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Isopropylbenzene | U | | 0.000286 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| p-Isopropyltoluene | U | | 0.000240 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 2-Butanone (MEK) | U | | 0.00551 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Methylene Chloride | U | | 0.00118 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00221 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000249 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Naphthalene | U | | 0.00118 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.000242 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Styrene | U | | 0.000275 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000311 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000429 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000429 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Tetrachloroethene | U | | 0.000325 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Toluene | U | | 0.000511 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.000360 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.000456 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.000336 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.000326 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Trichloroethene | U | | 0.000328 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Trichlorofluoromethane | U | | 0.000449 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.000872 | 0.00294 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.000248 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.000338 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.000313 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Vinyl acetate | U | | 0.00281 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Vinyl chloride | U | | 0.000342 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Xylenes, Total | U | | 0.000821 | 0.00353 | 1 | 09/02/2017 20:18 | WG1016411 |
| *(S) Toluene-d8* | *94.3* | | | *80.0-120* | | *09/02/2017 20:18* | WG1016411 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *09/02/2017 20:18* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/02/2017 20:18* | WG1016411 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.7 | | 1 | 09/08/2017 09:23 | WG1017807 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0370 | 0.109 | 1 | 09/05/2017 19:57 | WG1016832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.8* | | | *77.0-120* | | *09/05/2017 19:57* | WG1016832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0109 | 0.0545 | 1 | 09/02/2017 20:44 | WG1016411 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Bromomethane | U | | 0.00146 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| sec-Butylbenzene | U | J4 | 0.000219 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Carbon disulfide | U | | 0.000241 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| Chloroform | U | | 0.000250 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| Chloromethane | U | | 0.000409 | 0.00273 | 1 | 09/02/2017 20:44 | WG1016411 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Dichlorodifluoromethane | U | | 0.000778 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| cis-1,2-Dichloroethene | 0.000783 | J | 0.000256 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| trans-1,4-Dichloro-2-butene | U | | 0.000849 | 0.00273 | 1 | 09/02/2017 20:44 | WG1016411 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 |
| n-Hexane | 0.00162 | J | 0.000316 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.000225 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000398 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Tetrachloroethene | 0.00174 | | 0.000301 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Trichloroethene | 0.00245 | | 0.000304 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Trichlorofluoromethane | U | | 0.000417 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.000808 | 0.00273 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Vinyl chloride | U | | 0.000317 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Xylenes, Total | U | | 0.000761 | 0.00327 | 1 | 09/02/2017 20:44 | WG1016411 |
| *(S) Toluene-d8* | *96.2* | | | *80.0-120* | | *09/02/2017 20:44* | WG1016411 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/02/2017 20:44* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/02/2017 20:44* | WG1016411 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.4 | | 1 | 09/08/2017 09:23 | WG1017807 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0579 | 1 | 09/02/2017 21:10 | WG1016411 |
| Acrylonitrile | U | | 0.00207 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Bromobenzene | U | | 0.000329 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Bromochloromethane | U | | 0.000452 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| Bromoform | U | | 0.000491 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Bromomethane | U | | 0.00155 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| sec-Butylbenzene | U | J4 | 0.000233 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Carbon disulfide | U | | 0.000256 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Carbon tetrachloride | U | | 0.000380 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Chlorobenzene | U | | 0.000245 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Chlorodibromomethane | U | | 0.000432 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Chloroethane | U | | 0.00110 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| Chloroform | U | | 0.000265 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| Chloromethane | U | | 0.000434 | 0.00290 | 1 | 09/02/2017 21:10 | WG1016411 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2-Dibromoethane | U | | 0.000397 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Dibromomethane | U | | 0.000442 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Dichlorodifluoromethane | U | | 0.000826 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1-Dichloroethene | U | | 0.000351 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| cis-1,2-Dichloroethene | U | | 0.000272 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| trans-1,2-Dichloroethene | U | | 0.000306 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2-Dichloropropane | U | | 0.000415 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1-Dichloropropene | U | | 0.000367 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| cis-1,3-Dichloropropene | U | | 0.000303 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| trans-1,4-Dichloro-2-butene | U | | 0.000901 | 0.00290 | 1 | 09/02/2017 21:10 | WG1016411 |
| 2,2-Dichloropropane | U | | 0.000323 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Di-isopropyl ether | U | | 0.000287 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Ethylbenzene | U | | 0.000344 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Hexachloro-1,3-butadiene | U | | 0.000396 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |
| n-Hexane | 0.000364 | J | 0.000336 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Iodomethane | U | | 0.00293 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Isopropylbenzene | U | | 0.000281 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 2-Butanone (MEK) | U | | 0.00542 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Methylene Chloride | U | | 0.00116 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000245 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Naphthalene | U | | 0.00116 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.000239 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000423 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000423 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Toluene | U | | 0.000503 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.000449 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Trichloroethene | U | | 0.000323 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Trichlorofluoromethane | U | | 0.000442 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.000858 | 0.00290 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.000332 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Vinyl chloride | U | | 0.000337 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Xylenes, Total | U | | 0.000808 | 0.00347 | 1 | 09/02/2017 21:10 | WG1016411 |
| *(S) Toluene-d8* | *96.8* | | | *80.0-120* | | *09/02/2017 21:10* | WG1016411 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *09/02/2017 21:10* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/02/2017 21:10* | WG1016411 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.4 | | 1 | 09/08/2017 09:23 | WG1017807 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0384 | 0.113 | 1 | 09/05/2017 20:19 | WG1016832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.3* | | | *77.0-120* | | *09/05/2017 20:19* | WG1016832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.283 | 1.41 | 25 | 09/05/2017 16:45 | WG1016411 |
| Acrylonitrile | U | | 0.0507 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Benzene | U | | 0.00764 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Bromobenzene | U | | 0.00803 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Bromodichloromethane | U | | 0.00719 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Bromochloromethane | U | | 0.0110 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| Bromoform | U | | 0.0120 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Bromomethane | U | | 0.0379 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| n-Butylbenzene | U | | 0.00730 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| sec-Butylbenzene | U | J4 | 0.00568 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| tert-Butylbenzene | U | | 0.00583 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Carbon disulfide | U | | 0.00625 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Carbon tetrachloride | U | | 0.00928 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Chlorobenzene | U | | 0.00600 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Chlorodibromomethane | U | | 0.0105 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Chloroethane | U | | 0.0267 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| Chloroform | U | | 0.00647 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| Chloromethane | U | | 0.0106 | 0.0707 | 25 | 09/05/2017 16:45 | WG1016411 |
| 2-Chlorotoluene | U | | 0.00851 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 4-Chlorotoluene | U | | 0.00679 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0296 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2-Dibromoethane | U | | 0.00971 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Dibromomethane | U | | 0.0108 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2-Dichlorobenzene | U | | 0.00862 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,3-Dichlorobenzene | U | | 0.00677 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,4-Dichlorobenzene | U | | 0.00639 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Dichlorodifluoromethane | U | | 0.0201 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,1-Dichloroethane | U | | 0.00564 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2-Dichloroethane | U | | 0.00749 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,1-Dichloroethene | U | | 0.00858 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| cis-1,2-Dichloroethene | 0.00753 | J | 0.00665 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| trans-1,2-Dichloroethene | U | | 0.00747 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2-Dichloropropane | U | | 0.0101 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,1-Dichloropropene | U | | 0.00896 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,3-Dichloropropane | U | | 0.00586 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| cis-1,3-Dichloropropene | U | | 0.00741 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| trans-1,3-Dichloropropene | U | | 0.00756 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| trans-1,4-Dichloro-2-butene | U | | 0.0220 | 0.0707 | 25 | 09/05/2017 16:45 | WG1016411 |
| 2,2-Dichloropropane | U | | 0.00790 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Di-isopropyl ether | U | | 0.00702 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Ethylbenzene | U | | 0.00840 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Hexachloro-1,3-butadiene | U | | 0.00968 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 2-Hexanone | U | | 0.0387 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 |
| n-Hexane | 0.0117 | J | 0.00820 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0715 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Isopropylbenzene | U | | 0.00688 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| p-Isopropyltoluene | U | | 0.00577 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 2-Butanone (MEK) | U | | 0.132 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Methylene Chloride | U | | 0.0283 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0532 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Methyl tert-butyl ether | U | | 0.00600 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Naphthalene | U | | 0.0283 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.00583 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Styrene | U | | 0.00662 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00747 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0103 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0103 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Tetrachloroethene | U | | 0.00781 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Toluene | U | | 0.0122 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.00866 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.0110 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.00809 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.00783 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Trichloroethene | U | | 0.00790 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Trichlorofluoromethane | U | | 0.0108 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.0209 | 0.0707 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.00597 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.00813 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.00753 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Vinyl acetate | U | | 0.0677 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Vinyl chloride | U | | 0.00824 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Xylenes, Total | U | | 0.0197 | 0.0849 | 25 | 09/05/2017 16:45 | WG1016411 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/05/2017 16:45* | WG1016411 |
| *(S) Dibromofluoromethane* | *98.9* | | | *74.0-131* | | *09/05/2017 16:45* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *98.8* | | | *64.0-132* | | *09/05/2017 16:45* | WG1016411 |

**Sample Narrative:**

L933455-04 WG1016411: No low level sodium bisulfite vial remaining.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.4 | | 1 | 09/08/2017 09:23 | WG1017807 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0113 | 0.0565 | 1 | 09/05/2017 17:11 | WG1016411 |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Benzene | U | | 0.000305 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Bromobenzene | U | | 0.000321 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Bromodichloromethane | U | | 0.000287 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Bromochloromethane | U | | 0.000441 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| Bromoform | U | | 0.000479 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Bromomethane | U | | 0.00152 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| n-Butylbenzene | U | | 0.000292 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| sec-Butylbenzene | U | J4 | 0.000227 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| tert-Butylbenzene | U | | 0.000233 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Carbon disulfide | U | | 0.000250 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Carbon tetrachloride | U | | 0.000371 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Chlorobenzene | U | | 0.000240 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Chlorodibromomethane | U | | 0.000422 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Chloroethane | U | | 0.00107 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| Chloroform | U | | 0.000259 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| Chloromethane | U | | 0.000424 | 0.00283 | 1 | 09/05/2017 17:11 | WG1016411 |
| 2-Chlorotoluene | U | | 0.000340 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 4-Chlorotoluene | U | | 0.000271 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2-Dibromoethane | U | | 0.000388 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Dibromomethane | U | | 0.000432 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2-Dichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,3-Dichlorobenzene | U | | 0.000270 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Dichlorodifluoromethane | U | | 0.000806 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2-Dichloroethane | U | | 0.000300 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1-Dichloroethene | U | | 0.000343 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| cis-1,2-Dichloroethene | U | | 0.000266 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| trans-1,2-Dichloroethene | U | | 0.000298 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2-Dichloropropane | U | | 0.000405 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1-Dichloropropene | U | | 0.000358 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| cis-1,3-Dichloropropene | U | | 0.000296 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| trans-1,3-Dichloropropene | U | | 0.000302 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| trans-1,4-Dichloro-2-butene | U | | 0.000880 | 0.00283 | 1 | 09/05/2017 17:11 | WG1016411 |
| 2,2-Dichloropropane | U | | 0.000315 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Di-isopropyl ether | U | | 0.000280 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Ethylbenzene | U | | 0.000336 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Hexachloro-1,3-butadiene | U | | 0.000387 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |
| n-Hexane | 0.000357 | J | 0.000328 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Iodomethane | U | | 0.00286 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Isopropylbenzene | U | | 0.000275 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| p-Isopropyltoluene | U | | 0.000231 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 2-Butanone (MEK) | U | | 0.00529 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Methylene Chloride | U | | 0.00113 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00213 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000240 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Naphthalene | U | | 0.00113 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.000233 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Styrene | U | | 0.000265 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000298 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000413 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000413 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Tetrachloroethene | U | | 0.000312 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Toluene | U | | 0.000491 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.000439 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.000323 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.000313 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Trichloroethene | U | | 0.000315 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Trichlorofluoromethane | U | | 0.000432 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.000838 | 0.00283 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.000239 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.000324 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.000301 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Vinyl acetate | U | | 0.00270 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Vinyl chloride | U | | 0.000329 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Xylenes, Total | U | | 0.000789 | 0.00339 | 1 | 09/05/2017 17:11 | WG1016411 |
| *(S) Toluene-d8* | *95.1* | | | *80.0-120* | | *09/05/2017 17:11* | WG1016411 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/05/2017 17:11* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/05/2017 17:11* | WG1016411 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.5 | | 1 | 09/08/2017 09:23 | WG1017807 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.282 | 1.41 | 25 | 09/06/2017 12:42 | WG1016411 |
| Acrylonitrile | U | | 0.0506 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Benzene | U | | 0.00762 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Bromobenzene | U | J0 | 0.00802 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Bromodichloromethane | U | | 0.00717 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Bromochloromethane | U | | 0.0110 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 |
| Bromoform | U | | 0.0120 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Bromomethane | U | | 0.0378 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 |
| n-Butylbenzene | U | | 0.00728 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| sec-Butylbenzene | U | J4 | 0.00567 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| tert-Butylbenzene | U | | 0.00582 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Carbon disulfide | U | | 0.00623 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Carbon tetrachloride | U | | 0.00926 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Chlorobenzene | U | | 0.00599 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Chlorodibromomethane | U | | 0.0105 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Chloroethane | U | J0 | 0.0267 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 |
| Chloroform | U | | 0.00646 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 |
| Chloromethane | U | J0 | 0.0106 | 0.0706 | 25 | 09/06/2017 12:42 | WG1016411 |
| 2-Chlorotoluene | U | | 0.00849 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 4-Chlorotoluene | U | | 0.00678 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0296 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2-Dibromoethane | U | | 0.00969 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Dibromomethane | U | | 0.0108 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2-Dichlorobenzene | U | | 0.00861 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,3-Dichlorobenzene | U | | 0.00675 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,4-Dichlorobenzene | U | | 0.00638 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Dichlorodifluoromethane | U | | 0.0201 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,1-Dichloroethane | U | | 0.00562 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2-Dichloroethane | U | | 0.00748 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,1-Dichloroethene | U | | 0.00856 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| cis-1,2-Dichloroethene | U | | 0.00664 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| trans-1,2-Dichloroethene | U | | 0.00745 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2-Dichloropropane | U | | 0.0101 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,1-Dichloropropene | U | | 0.00894 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,3-Dichloropropane | U | | 0.00585 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| cis-1,3-Dichloropropene | U | | 0.00740 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| trans-1,3-Dichloropropene | U | | 0.00754 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.0219 | 0.0706 | 25 | 09/06/2017 12:42 | WG1016411 |
| 2,2-Dichloropropane | U | | 0.00788 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Di-isopropyl ether | U | J0 | 0.00700 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Ethylbenzene | U | | 0.00838 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Hexachloro-1,3-butadiene | U | | 0.00966 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 2-Hexanone | U | | 0.0386 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 |
| n-Hexane | 0.0157 | J J0 | 0.00819 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Iodomethane | U | | 0.0714 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Isopropylbenzene | U | | 0.00687 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| p-Isopropyltoluene | U | | 0.00576 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 2-Butanone (MEK) | U | J0 | 0.132 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Methylene Chloride | U | | 0.0282 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0531 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.00599 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Naphthalene | U | | 0.0282 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.00582 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Styrene | U | | 0.00661 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00745 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0103 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0103 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Tetrachloroethene | U | | 0.00779 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Toluene | U | | 0.0122 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.00864 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.0110 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.00808 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.00782 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Trichloroethene | U | | 0.00788 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Trichlorofluoromethane | U | | 0.0108 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.0209 | 0.0706 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.00596 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.00811 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.00751 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Vinyl acetate | U | | 0.0675 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Vinyl chloride | U | | 0.00822 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Xylenes, Total | U | | 0.0197 | 0.0847 | 25 | 09/06/2017 12:42 | WG1016411 |
| *(S) Toluene-d8* | *113* | | | *80.0-120* | | *09/06/2017 12:42* | WG1016411 |
| *(S) Dibromofluoromethane* | *89.7* | | | *74.0-131* | | *09/06/2017 12:42* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *93.7* | | | *64.0-132* | | *09/06/2017 12:42* | WG1016411 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.1 | | 1 | 09/07/2017 16:54 | WG1017937 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0138 | J | 0.0110 | 0.0549 | 1 | 09/05/2017 18:02 | WG1016411 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Benzene | 0.000533 | J | 0.000296 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Bromobenzene | U | | 0.000312 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Bromodichloromethane | U | | 0.000279 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Bromochloromethane | U | | 0.000428 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| Bromoform | U | | 0.000466 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Bromomethane | U | | 0.00147 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| n-Butylbenzene | U | | 0.000283 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| sec-Butylbenzene | U | J4 | 0.000221 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| tert-Butylbenzene | U | | 0.000226 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Carbon disulfide | 0.000859 | J | 0.000243 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Carbon tetrachloride | U | | 0.000360 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Chlorodibromomethane | U | | 0.000410 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Chloroethane | U | | 0.00104 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| Chloroform | U | | 0.000251 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| Chloromethane | U | | 0.000412 | 0.00274 | 1 | 09/05/2017 18:02 | WG1016411 |
| 2-Chlorotoluene | U | | 0.000330 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 4-Chlorotoluene | U | | 0.000264 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2-Dibromoethane | U | | 0.000377 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Dibromomethane | U | | 0.000419 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2-Dichlorobenzene | U | | 0.000335 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,3-Dichlorobenzene | U | | 0.000262 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,4-Dichlorobenzene | U | | 0.000248 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Dichlorodifluoromethane | U | | 0.000783 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1-Dichloroethane | U | | 0.000218 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2-Dichloroethane | U | | 0.000291 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1-Dichloroethene | U | | 0.000333 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| cis-1,2-Dichloroethene | U | | 0.000258 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| trans-1,2-Dichloroethene | U | | 0.000290 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2-Dichloropropane | U | | 0.000393 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1-Dichloropropene | U | | 0.000348 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,3-Dichloropropane | U | | 0.000227 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| cis-1,3-Dichloropropene | U | | 0.000288 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| trans-1,3-Dichloropropene | U | | 0.000293 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| trans-1,4-Dichloro-2-butene | U | | 0.000854 | 0.00274 | 1 | 09/05/2017 18:02 | WG1016411 |
| 2,2-Dichloropropane | U | | 0.000306 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Di-isopropyl ether | U | | 0.000272 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Ethylbenzene | U | | 0.000326 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Hexachloro-1,3-butadiene | U | | 0.000375 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 2-Hexanone | U | | 0.00150 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |
| n-Hexane | U | | 0.000318 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Iodomethane | U | | 0.00278 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Isopropylbenzene | U | | 0.000267 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| p-Isopropyltoluene | U | | 0.000224 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 2-Butanone (MEK) | U | | 0.00514 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Methylene Chloride | U | | 0.00110 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00206 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Naphthalene | U | | 0.00110 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.000226 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Styrene | U | | 0.000257 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000290 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000401 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000401 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Tetrachloroethene | U | | 0.000303 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Toluene | U | | 0.000477 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.000426 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.000314 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.000304 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Trichloroethene | U | | 0.000306 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Trichlorofluoromethane | U | | 0.000419 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.000814 | 0.00274 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.000315 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.000292 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Vinyl acetate | U | | 0.00262 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Vinyl chloride | U | | 0.000319 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Xylenes, Total | U | | 0.000766 | 0.00329 | 1 | 09/05/2017 18:02 | WG1016411 |
| *(S) Toluene-d8* | *95.7* | | | *80.0-120* | | *09/05/2017 18:02* | WG1016411 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *09/05/2017 18:02* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/05/2017 18:02* | WG1016411 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 745 | | 158 | 500 | 5 | 09/03/2017 18:37 | WG1016529 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.9* | | | *77.0-122* | | *09/03/2017 18:37* | WG1016529 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 44.6 | J | 5.25 | 125 | 5 | 09/02/2017 17:10 | WG1016388 |
| Acrylonitrile | U | | 4.36 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| Benzene | 0.658 | J | 0.448 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Bromobenzene | U | | 0.665 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Bromodichloromethane | U | | 0.400 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Bromochloromethane | U | | 0.725 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Bromoform | U | | 0.930 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Bromomethane | U | | 0.785 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| n-Butylbenzene | U | | 0.715 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| sec-Butylbenzene | U | | 0.670 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| tert-Butylbenzene | U | | 0.915 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Carbon disulfide | U | | 0.505 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Carbon tetrachloride | U | | 0.795 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Chlorobenzene | U | | 0.700 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Chlorodibromomethane | U | | 0.640 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Chloroethane | U | | 0.705 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| Chloroform | U | | 0.430 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Chloromethane | U | | 0.765 | 6.25 | 5 | 09/02/2017 17:10 | WG1016388 |
| 2-Chlorotoluene | U | | 0.555 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 4-Chlorotoluene | U | | 0.486 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.62 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2-Dibromoethane | U | | 0.965 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Dibromomethane | U | | 0.585 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2-Dichlorobenzene | U | | 0.505 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,3-Dichlorobenzene | U | | 0.650 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,4-Dichlorobenzene | U | | 0.605 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Dichlorodifluoromethane | U | | 0.635 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1-Dichloroethane | U | | 0.570 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2-Dichloroethane | U | | 0.540 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1-Dichloroethene | U | | 0.940 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| cis-1,2-Dichloroethene | 4.46 | | 0.466 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| trans-1,2-Dichloroethene | U | | 0.760 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2-Dichloropropane | U | | 0.950 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1-Dichloropropene | U | | 0.640 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,3-Dichloropropane | U | | 0.735 | 5.00 | 5 | 09/02/2017 17:10 | WG1016388 |
| cis-1,3-Dichloropropene | U | | 0.488 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| trans-1,3-Dichloropropene | U | | 1.11 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| trans-1,4-Dichloro-2-butene | U | | 1.28 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| 2,2-Dichloropropane | U | | 0.464 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Di-isopropyl ether | U | | 0.462 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Ethylbenzene | U | | 0.790 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Hexachloro-1,3-butadiene | U | | 0.785 | 5.00 | 5 | 09/02/2017 17:10 | WG1016388 |
| 2-Hexanone | U | | 3.78 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| n-Hexane | 2.43 | J | 1.52 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| Iodomethane | U | | 1.88 | 50.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| Isopropylbenzene | U | | 0.630 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| p-Isopropyltoluene | U | | 0.690 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 2-Butanone (MEK) | 12.2 | J | 6.40 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 5.35 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| 4-Methyl-2-pentanone (MIBK) | U | | 4.12 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| Methyl tert-butyl ether | U | | 0.510 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Naphthalene | U | | 0.870 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| n-Propylbenzene | U | | 0.810 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Styrene | U | | 0.585 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1,1,2-Tetrachloroethane | U | | 0.600 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1,2,2-Tetrachloroethane | U | | 0.650 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.820 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Tetrachloroethene | U | | 0.995 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Toluene | 151 | | 2.06 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2,3-Trichlorobenzene | U | | 0.820 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2,4-Trichlorobenzene | U | | 1.78 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1,1-Trichloroethane | U | | 0.470 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1,2-Trichloroethane | U | | 0.930 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Trichloroethene | U | | 0.765 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Trichlorofluoromethane | U | | 0.650 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2,3-Trichloropropane | U | | 1.24 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2,4-Trimethylbenzene | U | | 0.615 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2,3-Trimethylbenzene | U | | 0.370 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,3,5-Trimethylbenzene | U | | 0.620 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Vinyl acetate | U | | 3.22 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| Vinyl chloride | U | | 0.590 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Xylenes, Total | U | | 1.58 | 7.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/02/2017 17:10* | WG1016388 |
| *(S) Dibromofluoromethane* | *105* | | | *76.0-123* | | *09/02/2017 17:10* | WG1016388 |
| *(S) 4-Bromofluorobenzene* | *99.0* | | | *80.0-120* | | *09/02/2017 17:10* | WG1016388 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 631 | | 31.6 | 100 | 1 | 09/03/2017 19:01 | WG1016529 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-122* | | *09/03/2017 19:01* | WG1016529 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 45.1 | J | 5.25 | 125 | 5 | 09/02/2017 17:30 | WG1016388 |
| Acrylonitrile | U | | 4.36 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| Benzene | U | | 0.448 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Bromobenzene | U | | 0.665 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Bromodichloromethane | U | | 0.400 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Bromochloromethane | U | | 0.725 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Bromoform | U | | 0.930 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Bromomethane | U | | 0.785 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| n-Butylbenzene | U | | 0.715 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| sec-Butylbenzene | U | | 0.670 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| tert-Butylbenzene | U | | 0.915 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Carbon disulfide | U | | 0.505 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Carbon tetrachloride | U | | 0.795 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Chlorobenzene | U | | 0.700 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Chlorodibromomethane | U | | 0.640 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Chloroethane | U | | 0.705 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| Chloroform | U | | 0.430 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Chloromethane | U | | 0.765 | 6.25 | 5 | 09/02/2017 17:30 | WG1016388 |
| 2-Chlorotoluene | U | | 0.555 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 4-Chlorotoluene | U | | 0.486 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.62 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2-Dibromoethane | U | | 0.965 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Dibromomethane | U | | 0.585 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2-Dichlorobenzene | U | | 0.505 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,3-Dichlorobenzene | U | | 0.650 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,4-Dichlorobenzene | U | | 0.605 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Dichlorodifluoromethane | U | | 0.635 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1-Dichloroethane | U | | 0.570 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2-Dichloroethane | U | | 0.540 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1-Dichloroethene | U | | 0.940 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| cis-1,2-Dichloroethene | 2.86 | | 0.466 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| trans-1,2-Dichloroethene | U | | 0.760 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2-Dichloropropane | U | | 0.950 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1-Dichloropropene | U | | 0.640 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,3-Dichloropropane | U | | 0.735 | 5.00 | 5 | 09/02/2017 17:30 | WG1016388 |
| cis-1,3-Dichloropropene | U | | 0.488 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| trans-1,3-Dichloropropene | U | | 1.11 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| trans-1,4-Dichloro-2-butene | U | | 1.28 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| 2,2-Dichloropropane | U | | 0.464 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Di-isopropyl ether | U | | 0.462 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Ethylbenzene | U | | 0.790 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Hexachloro-1,3-butadiene | U | | 0.785 | 5.00 | 5 | 09/02/2017 17:30 | WG1016388 |
| 2-Hexanone | U | | 3.78 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| n-Hexane | U | | 1.52 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| Iodomethane | U | | 1.88 | 50.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| Isopropylbenzene | U | | 0.630 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| p-Isopropyltoluene | U | | 0.690 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 2-Butanone (MEK) | 9.66 | J | 6.40 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 5.35 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| 4-Methyl-2-pentanone (MIBK) | U | | 4.12 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| Methyl tert-butyl ether | U | | 0.510 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Naphthalene | U | | 0.870 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| n-Propylbenzene | U | | 0.810 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Styrene | U | | 0.585 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1,1,2-Tetrachloroethane | U | | 0.600 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1,2,2-Tetrachloroethane | U | | 0.650 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.820 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Tetrachloroethene | U | | 0.995 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Toluene | 105 | | 2.06 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2,3-Trichlorobenzene | U | | 0.820 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2,4-Trichlorobenzene | U | | 1.78 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1,1-Trichloroethane | U | | 0.470 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1,2-Trichloroethane | U | | 0.930 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Trichloroethene | U | | 0.765 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Trichlorofluoromethane | U | | 0.650 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2,3-Trichloropropane | U | | 1.24 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2,4-Trimethylbenzene | U | | 0.615 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2,3-Trimethylbenzene | U | | 0.370 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,3,5-Trimethylbenzene | U | | 0.620 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Vinyl acetate | U | | 3.22 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| Vinyl chloride | U | | 0.590 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Xylenes, Total | U | | 1.58 | 7.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/02/2017 17:30* | WG1016388 |
| *(S) Dibromofluoromethane* | *103* | | | *76.0-123* | | *09/02/2017 17:30* | WG1016388 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *80.0-120* | | *09/02/2017 17:30* | WG1016388 |

## Method Blank (MB)

(MB) R3248029-1 09/08/17 09:23

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.000300 | | | |

## L933455-01 Original Sample (OS) • Duplicate (DUP)

(OS) L933455-01 09/08/17 09:23 • (DUP) R3248029-3 09/08/17 09:23

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 85.0 | 83.9 | 1 | 1.31 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3248029-2 09/08/17 09:23

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3247765-1 09/07/17 16:54

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000300 | | | |

## L933455-07 Original Sample (OS) • Duplicate (DUP)

(OS) L933455-07 09/07/17 16:54 • (DUP) R3247765-3 09/07/17 16:54

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 91.1 | 91.3 | 1 | 0.229 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3247765-2 09/07/17 16:54

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3247051-3 09/03/17 15:51

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.5* | | | *77.0-122* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247051-1 09/03/17 14:16 • (LCSD) R3247051-2 09/03/17 15:03

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 5700 | 5650 | 104 | 103 | 72.0-134 | | | 0.890 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *110* | *110* | *77.0-122* | | | | |

## L933750-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L933750-05 09/03/17 22:57 • (MS) R3247051-4 09/03/17 23:21 • (MSD) R3247051-5 09/03/17 23:44

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 45.0 | 6360 | 6300 | 115 | 114 | 1 | 23.0-159 | | | 0.810 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *108* | *109* | | *77.0-122* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3247106-3 09/05/17 10:37

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C6 - C12 | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247106-1 09/05/17 09:31 • (LCSD) R3247106-2 09/05/17 09:53

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C6 - C12 | 5.50 | 5.49 | 5.13 | 99.8 | 93.2 | 70.0-133 | | | 6.81 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *101* | *102* | *77.0-120* | | | | |

## L933294-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L933294-01 09/05/17 17:22 • (MS) R3247106-4 09/05/17 12:14 • (MSD) R3247106-5 09/05/17 12:36

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C6 - C12 | 5.50 | 20.0 | 114 | 136 | 68.7 | 84.3 | 25 | 10.0-146 | | | 17.2 | 30 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *102* | *102* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3247042-5 09/02/17 12:06

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| 2-Hexanone | U | | 0.757 | 5.00 |

## Method Blank (MB)

(MB) R3247042-5 09/02/17 12:06

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| n-Hexane | U | | 0.305 | 5.00 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |
| Iodomethane | U | | 0.377 | 10.0 |
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *103* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *102* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247042-1 09/02/17 10:26 • (LCSD) R3247042-2 09/02/17 10:46

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 25.0 | 27.0 | 26.7 | 108 | 107 | 76.0-122 | | | 0.990 | 20 |
| Carbon disulfide | 25.0 | 27.7 | 27.4 | 111 | 110 | 55.0-127 | | | 0.800 | 20 |
| Acetone | 125 | 158 | 190 | 126 | 152 | 10.0-160 | | | 18.4 | 23 |
| Acrylonitrile | 125 | 142 | 139 | 114 | 111 | 60.0-142 | | | 2.20 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 24.7 | 24.2 | 98.7 | 97.0 | 55.0-134 | | | 1.72 | 20 |
| Benzene | 25.0 | 27.0 | 26.8 | 108 | 107 | 69.0-123 | | | 0.510 | 20 |
| Bromobenzene | 25.0 | 24.1 | 23.5 | 96.4 | 94.0 | 79.0-120 | | | 2.53 | 20 |
| Bromodichloromethane | 25.0 | 26.6 | 26.3 | 106 | 105 | 76.0-120 | | | 1.12 | 20 |
| 2-Hexanone | 125 | 142 | 140 | 114 | 112 | 58.0-147 | | | 1.46 | 20 |
| Bromoform | 25.0 | 24.6 | 24.2 | 98.5 | 96.9 | 67.0-132 | | | 1.64 | 20 |
| Bromomethane | 25.0 | 26.3 | 26.7 | 105 | 107 | 18.0-160 | | | 1.66 | 20 |
| n-Hexane | 25.0 | 28.8 | 28.3 | 115 | 113 | 56.0-124 | | | 1.77 | 20 |
| Iodomethane | 125 | 139 | 139 | 112 | 111 | 57.0-140 | | | 0.660 | 20 |
| n-Butylbenzene | 25.0 | 29.0 | 28.3 | 116 | 113 | 72.0-126 | | | 2.23 | 20 |
| sec-Butylbenzene | 25.0 | 26.3 | 25.8 | 105 | 103 | 74.0-121 | | | 1.98 | 20 |
| tert-Butylbenzene | 25.0 | 25.7 | 25.4 | 103 | 101 | 75.0-122 | | | 1.37 | 20 |
| Carbon tetrachloride | 25.0 | 26.6 | 26.7 | 106 | 107 | 63.0-122 | | | 0.290 | 20 |
| Chlorobenzene | 25.0 | 25.4 | 25.2 | 101 | 101 | 79.0-121 | | | 0.550 | 20 |
| Chlorodibromomethane | 25.0 | 26.2 | 25.8 | 105 | 103 | 75.0-125 | | | 1.51 | 20 |
| Chloroethane | 25.0 | 26.7 | 26.4 | 107 | 106 | 47.0-152 | | | 1.22 | 20 |
| Chloroform | 25.0 | 27.2 | 27.2 | 109 | 109 | 72.0-121 | | | 0.0100 | 20 |
| Chloromethane | 25.0 | 24.9 | 24.9 | 99.7 | 99.6 | 48.0-139 | | | 0.100 | 20 |
| 2-Chlorotoluene | 25.0 | 25.2 | 24.8 | 101 | 99.1 | 74.0-122 | | | 1.91 | 20 |
| 4-Chlorotoluene | 25.0 | 25.1 | 24.6 | 100 | 98.4 | 79.0-120 | | | 2.10 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 26.1 | 25.6 | 104 | 102 | 64.0-127 | | | 1.81 | 20 |
| 1,2-Dibromoethane | 25.0 | 25.4 | 25.2 | 102 | 101 | 77.0-123 | | | 0.790 | 20 |
| Dibromomethane | 25.0 | 26.3 | 26.6 | 105 | 106 | 78.0-120 | | | 0.850 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 26.1 | 25.9 | 105 | 104 | 80.0-120 | | | 0.900 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 25.6 | 25.1 | 102 | 100 | 72.0-123 | | | 2.09 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 24.7 | 24.5 | 98.7 | 98.0 | 77.0-120 | | | 0.740 | 20 |
| Dichlorodifluoromethane | 25.0 | 27.7 | 26.7 | 111 | 107 | 49.0-155 | | | 3.73 | 20 |
| 1,1-Dichloroethane | 25.0 | 28.0 | 27.6 | 112 | 110 | 70.0-126 | | | 1.51 | 20 |
| 1,2-Dichloroethane | 25.0 | 28.4 | 28.7 | 114 | 115 | 67.0-126 | | | 0.940 | 20 |
| 1,1-Dichloroethene | 25.0 | 28.0 | 28.0 | 112 | 112 | 64.0-129 | | | 0.0800 | 20 |
| Vinyl acetate | 125 | 179 | 179 | 143 | 143 | 46.0-160 | | | 0.0200 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 26.8 | 26.7 | 107 | 107 | 73.0-120 | | | 0.320 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 27.1 | 27.0 | 108 | 108 | 71.0-121 | | | 0.100 | 20 |
| 1,2-Dichloropropane | 25.0 | 27.8 | 27.2 | 111 | 109 | 75.0-125 | | | 2.07 | 20 |
| 1,1-Dichloropropene | 25.0 | 27.9 | 27.8 | 111 | 111 | 71.0-129 | | | 0.110 | 20 |
| 1,3-Dichloropropane | 25.0 | 25.3 | 25.3 | 101 | 101 | 80.0-121 | | | 0.190 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247042-1 09/02/17 10:26 • (LCSD) R3247042-2 09/02/17 10:46

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 25.0 | 28.8 | 28.7 | 115 | 115 | 79.0-123 | | | 0.550 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 28.4 | 28.2 | 114 | 113 | 74.0-127 | | | 0.610 | 20 |
| 2,2-Dichloropropane | 25.0 | 28.3 | 28.8 | 113 | 115 | 60.0-125 | | | 1.61 | 20 |
| Di-isopropyl ether | 25.0 | 26.9 | 26.9 | 108 | 108 | 59.0-133 | | | 0.110 | 20 |
| Ethylbenzene | 25.0 | 25.6 | 25.0 | 102 | 100 | 77.0-120 | | | 2.41 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 29.9 | 30.6 | 120 | 123 | 64.0-131 | | | 2.45 | 20 |
| Isopropylbenzene | 25.0 | 25.1 | 24.7 | 100 | 98.6 | 75.0-120 | | | 1.91 | 20 |
| p-Isopropyltoluene | 25.0 | 27.5 | 27.1 | 110 | 108 | 74.0-126 | | | 1.49 | 20 |
| 2-Butanone (MEK) | 125 | 116 | 122 | 93.1 | 97.5 | 37.0-158 | | | 4.59 | 20 |
| Methylene Chloride | 25.0 | 26.6 | 26.5 | 106 | 106 | 66.0-121 | | | 0.500 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 138 | 135 | 110 | 108 | 59.0-143 | | | 2.28 | 20 |
| Methyl tert-butyl ether | 25.0 | 26.3 | 26.5 | 105 | 106 | 64.0-123 | | | 0.940 | 20 |
| Naphthalene | 25.0 | 28.3 | 28.6 | 113 | 114 | 62.0-128 | | | 0.750 | 20 |
| n-Propylbenzene | 25.0 | 26.3 | 25.6 | 105 | 102 | 79.0-120 | | | 2.76 | 20 |
| Styrene | 25.0 | 25.6 | 25.2 | 103 | 101 | 78.0-124 | | | 1.84 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 25.5 | 25.7 | 102 | 103 | 75.0-122 | | | 0.680 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 25.8 | 25.5 | 103 | 102 | 71.0-122 | | | 1.20 | 20 |
| Tetrachloroethene | 25.0 | 25.3 | 25.0 | 101 | 99.9 | 70.0-127 | | | 1.23 | 20 |
| Toluene | 25.0 | 25.3 | 24.7 | 101 | 98.9 | 77.0-120 | | | 2.21 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 28.6 | 28.3 | 115 | 113 | 61.0-136 | | | 1.30 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 31.6 | 32.6 | 126 | 130 | 61.0-133 | | | 3.01 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 31.0 | 31.7 | 124 | 127 | 69.0-129 | | | 2.18 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 27.9 | 27.9 | 112 | 112 | 68.0-122 | | | 0.0500 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 25.6 | 25.5 | 102 | 102 | 78.0-120 | | | 0.190 | 20 |
| Trichloroethene | 25.0 | 25.7 | 25.4 | 103 | 102 | 78.0-120 | | | 1.26 | 20 |
| Trichlorofluoromethane | 25.0 | 28.3 | 28.3 | 113 | 113 | 56.0-137 | | | 0.330 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 25.3 | 24.9 | 101 | 99.6 | 72.0-124 | | | 1.46 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 24.2 | 23.9 | 96.6 | 95.7 | 75.0-120 | | | 1.01 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 26.0 | 25.5 | 104 | 102 | 75.0-120 | | | 1.65 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 25.8 | 25.4 | 103 | 102 | 75.0-120 | | | 1.41 | 20 |
| Vinyl chloride | 25.0 | 26.5 | 26.5 | 106 | 106 | 64.0-133 | | | 0.0700 | 20 |
| Xylenes, Total | 75.0 | 77.1 | 76.6 | 103 | 102 | 77.0-120 | | | 0.650 | 20 |
| *(S) Toluene-d8* | | | | *100* | *100* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *104* | *105* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *101* | *98.8* | *80.0-120* | | | | |

## Method Blank (MB)

(MB) R3246814-3 09/02/17 13:15

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3246814-3 09/02/17 13:15

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246814-1 09/02/17 11:31 • (LCSD) R3246814-4 09/02/17 14:07

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.131 | 0.133 | 105 | 106 | 11.0-160 | | | 1.08 | 23 |
| Acrylonitrile | 0.125 | 0.109 | 0.109 | 87.2 | 87.2 | 61.0-143 | | | 0.0400 | 20 |
| Benzene | 0.0250 | 0.0257 | 0.0252 | 103 | 101 | 71.0-124 | | | 2.13 | 20 |
| Bromobenzene | 0.0250 | 0.0260 | 0.0255 | 104 | 102 | 78.0-120 | | | 1.88 | 20 |
| Bromodichloromethane | 0.0250 | 0.0239 | 0.0235 | 95.6 | 93.9 | 75.0-120 | | | 1.70 | 20 |
| Bromochloromethane | 0.0250 | 0.0246 | 0.0251 | 98.5 | 101 | 80.0-121 | | | 2.10 | 20 |
| Bromoform | 0.0250 | 0.0242 | 0.0232 | 96.8 | 92.9 | 65.0-133 | | | 4.20 | 20 |
| Bromomethane | 0.0250 | 0.0276 | 0.0245 | 110 | 98.1 | 26.0-160 | | | 11.8 | 20 |
| n-Butylbenzene | 0.0250 | 0.0312 | 0.0296 | 125 | 118 | 73.0-126 | | | 5.17 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0304 | 0.0291 | 122 | 116 | 75.0-121 | J4 | | 4.45 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0291 | 0.0282 | 116 | 113 | 74.0-122 | | | 3.02 | 20 |
| Carbon disulfide | 0.0250 | 0.0283 | 0.0266 | 113 | 106 | 53.0-130 | | | 6.03 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0247 | 0.0239 | 98.7 | 95.6 | 66.0-123 | | | 3.19 | 20 |
| Chlorobenzene | 0.0250 | 0.0261 | 0.0258 | 105 | 103 | 79.0-121 | | | 1.21 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0248 | 0.0247 | 99.2 | 98.8 | 74.0-128 | | | 0.490 | 20 |
| Chloroethane | 0.0250 | 0.0264 | 0.0269 | 106 | 108 | 51.0-147 | | | 1.73 | 20 |
| Chloroform | 0.0250 | 0.0254 | 0.0253 | 102 | 101 | 73.0-123 | | | 0.270 | 20 |
| Chloromethane | 0.0250 | 0.0240 | 0.0241 | 96.2 | 96.5 | 51.0-138 | | | 0.330 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0280 | 0.0270 | 112 | 108 | 72.0-124 | | | 3.66 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0270 | 0.0262 | 108 | 105 | 78.0-120 | | | 3.20 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0228 | 0.0228 | 91.1 | 91.0 | 65.0-126 | | | 0.130 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0237 | 0.0235 | 94.9 | 94.1 | 78.0-122 | | | 0.850 | 20 |
| Dibromomethane | 0.0250 | 0.0238 | 0.0241 | 95.0 | 96.5 | 79.0-120 | | | 1.61 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0266 | 0.0257 | 107 | 103 | 80.0-120 | | | 3.44 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0263 | 0.0255 | 105 | 102 | 72.0-123 | | | 3.30 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0269 | 0.0259 | 108 | 104 | 77.0-120 | | | 3.80 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0222 | 0.0215 | 88.9 | 86.2 | 68.0-126 | | | 3.12 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0278 | 0.0270 | 111 | 108 | 49.0-155 | | | 3.10 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0261 | 0.0254 | 104 | 102 | 70.0-128 | | | 2.72 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0249 | 0.0253 | 99.6 | 101 | 69.0-128 | | | 1.69 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0277 | 0.0265 | 111 | 106 | 63.0-131 | | | 4.18 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0250 | 0.0248 | 99.9 | 99.2 | 74.0-123 | | | 0.640 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0258 | 0.0254 | 103 | 101 | 72.0-122 | | | 1.56 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0255 | 0.0249 | 102 | 99.8 | 75.0-126 | | | 2.05 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0262 | 0.0252 | 105 | 101 | 72.0-130 | | | 3.68 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0243 | 0.0247 | 97.3 | 98.8 | 80.0-121 | | | 1.52 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0269 | 0.0263 | 108 | 105 | 80.0-125 | | | 2.24 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0250 | 0.0247 | 100 | 98.9 | 75.0-129 | | | 1.10 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0249 | 0.0244 | 99.6 | 97.6 | 60.0-129 | | | 1.97 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0244 | 0.0242 | 97.7 | 96.6 | 62.0-133 | | | 1.11 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3246814-1 09/02/17 11:31 • (LCSD) R3246814-4 09/02/17 14:07

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0262 | 0.0256 | 105 | 102 | 77.0-120 | | | 2.25 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0317 | 0.0315 | 127 | 126 | 68.0-128 | | | 0.740 | 20 |
| 2-Hexanone | 0.125 | 0.120 | 0.120 | 95.7 | 96.0 | 61.0-143 | | | 0.230 | 20 |
| n-Hexane | 0.0250 | 0.0273 | 0.0267 | 109 | 107 | 57.0-125 | | | 2.27 | 20 |
| Iodomethane | 0.125 | 0.142 | 0.142 | 114 | 113 | 67.0-132 | | | 0.470 | 20 |
| Isopropylbenzene | 0.0250 | 0.0282 | 0.0270 | 113 | 108 | 75.0-120 | | | 4.57 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0312 | 0.0300 | 125 | 120 | 74.0-125 | | | 3.91 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.121 | 0.119 | 96.7 | 95.3 | 37.0-159 | | | 1.40 | 20 |
| Methylene Chloride | 0.0250 | 0.0257 | 0.0263 | 103 | 105 | 67.0-123 | | | 2.18 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.111 | 0.114 | 88.4 | 91.0 | 60.0-144 | | | 2.89 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0243 | 0.0249 | 97.4 | 99.6 | 66.0-125 | | | 2.23 | 20 |
| Naphthalene | 0.0250 | 0.0232 | 0.0232 | 92.8 | 92.9 | 64.0-125 | | | 0.0900 | 20 |
| n-Propylbenzene | 0.0250 | 0.0302 | 0.0288 | 121 | 115 | 78.0-120 | J4 | | 4.83 | 20 |
| Styrene | 0.0250 | 0.0274 | 0.0264 | 110 | 106 | 78.0-124 | | | 3.63 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0251 | 0.0250 | 100 | 100 | 74.0-124 | | | 0.240 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0253 | 0.0250 | 101 | 100 | 73.0-120 | | | 1.27 | 20 |
| Tetrachloroethene | 0.0250 | 0.0262 | 0.0251 | 105 | 100 | 70.0-127 | | | 4.16 | 20 |
| Toluene | 0.0250 | 0.0252 | 0.0245 | 101 | 97.9 | 77.0-120 | | | 3.01 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0279 | 0.0273 | 112 | 109 | 64.0-135 | | | 2.24 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0247 | 0.0249 | 98.6 | 99.7 | 68.0-126 | | | 1.09 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0253 | 0.0248 | 101 | 99.4 | 70.0-127 | | | 1.86 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0258 | 0.0253 | 103 | 101 | 69.0-125 | | | 2.13 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0242 | 0.0243 | 96.9 | 97.2 | 78.0-120 | | | 0.260 | 20 |
| Trichloroethene | 0.0250 | 0.0252 | 0.0247 | 101 | 98.7 | 79.0-120 | | | 2.12 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0267 | 0.0257 | 107 | 103 | 59.0-136 | | | 3.86 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0254 | 0.0251 | 102 | 101 | 73.0-124 | | | 1.03 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0258 | 0.0252 | 103 | 101 | 76.0-120 | | | 2.38 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0280 | 0.0270 | 112 | 108 | 75.0-120 | | | 3.48 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0286 | 0.0278 | 115 | 111 | 75.0-120 | | | 3.09 | 20 |
| Vinyl acetate | 0.125 | 0.126 | 0.123 | 101 | 98.1 | 58.0-156 | | | 2.47 | 20 |
| Vinyl chloride | 0.0250 | 0.0269 | 0.0262 | 108 | 105 | 63.0-134 | | | 2.68 | 20 |
| Xylenes, Total | 0.0750 | 0.0781 | 0.0770 | 104 | 103 | 77.0-120 | | | 1.42 | 20 |
| *(S) Toluene-d8* | | | | *102* | *102* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *101* | *102* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *102* | *102* | *64.0-132* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## L933692-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L933692-03 09/02/17 16:24 • (MS) R3246814-5 09/02/17 14:40 • (MSD) R3246814-6 09/02/17 15:06

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.150 | U | 0.0226 | 0.0269 | 15.0 | 17.9 | 1 | 10.0-160 | | | 17.4 | 36 |
| Acrylonitrile | 0.150 | U | 0.0234 | 0.0299 | 15.6 | 19.9 | 1 | 14.0-160 | | | 24.7 | 33 |
| Benzene | 0.0300 | U | 0.00230 | 0.00379 | 7.65 | 12.6 | 1 | 13.0-146 | J6 | J3 J6 | 49.1 | 27 |
| Bromobenzene | 0.0300 | U | 0.00196 | 0.00401 | 6.52 | 13.4 | 1 | 10.0-149 | J6 | J3 | 68.8 | 33 |
| Bromodichloromethane | 0.0300 | U | 0.00285 | 0.00447 | 9.48 | 14.9 | 1 | 15.0-142 | J6 | J3 J6 | 44.3 | 28 |
| Bromochloromethane | 0.0300 | U | 0.00294 | 0.00429 | 9.81 | 14.3 | 1 | 24.0-146 | J6 | J3 J6 | 37.2 | 27 |
| Bromoform | 0.0300 | U | 0.00298 | 0.00498 | 9.93 | 16.6 | 1 | 10.0-147 | J6 | J3 | 50.2 | 31 |
| Bromomethane | 0.0300 | U | 0.00203 | 0.00292 | 6.76 | 9.72 | 1 | 10.0-160 | J6 | J3 J6 | 36.0 | 32 |
| n-Butylbenzene | 0.0300 | U | 0.000967 | 0.00358 | 3.22 | 11.9 | 1 | 10.0-154 | J6 | J3 | 115 | 37 |
| sec-Butylbenzene | 0.0300 | U | 0.00117 | 0.00386 | 3.89 | 12.9 | 1 | 10.0-151 | J6 | J3 | 107 | 36 |
| tert-Butylbenzene | 0.0300 | U | 0.00155 | 0.00410 | 5.18 | 13.6 | 1 | 10.0-152 | J6 | J3 | 90.0 | 35 |
| Carbon disulfide | 0.0300 | U | 0.000676 | 0.00104 | 2.25 | 3.46 | 1 | 10.0-141 | J6 | J3 J6 | 42.3 | 30 |
| Carbon tetrachloride | 0.0300 | U | 0.00184 | 0.00355 | 6.14 | 11.8 | 1 | 13.0-140 | J6 | J3 J6 | 63.3 | 30 |
| Chlorobenzene | 0.0300 | U | 0.00189 | 0.00383 | 6.29 | 12.7 | 1 | 10.0-149 | J6 | J3 | 67.8 | 31 |
| Chlorodibromomethane | 0.0300 | U | 0.00291 | 0.00486 | 9.69 | 16.2 | 1 | 12.0-147 | J6 | J3 | 50.2 | 29 |
| Chloroethane | 0.0300 | U | 0.00209 | 0.00318 | 6.97 | 10.6 | 1 | 10.0-159 | J6 | J3 | 41.4 | 33 |
| Chloroform | 0.0300 | U | 0.00295 | 0.00483 | 9.82 | 16.1 | 1 | 18.0-148 | J6 | J3 J6 | 48.4 | 28 |
| Chloromethane | 0.0300 | U | 0.00143 | 0.00187 | 4.76 | 6.24 | 1 | 10.0-146 | J6 | J6 | 26.9 | 29 |
| 2-Chlorotoluene | 0.0300 | U | 0.00151 | 0.00386 | 5.03 | 12.9 | 1 | 10.0-151 | J6 | J3 | 87.6 | 35 |
| 4-Chlorotoluene | 0.0300 | U | 0.00138 | 0.00358 | 4.61 | 11.9 | 1 | 10.0-150 | J6 | J3 | 88.5 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0300 | U | 0.00382 | 0.00630 | 12.7 | 21.0 | 1 | 10.0-149 | | J3 | 49.1 | 34 |
| 1,2-Dibromoethane | 0.0300 | U | 0.00290 | 0.00469 | 9.66 | 15.6 | 1 | 14.0-145 | J6 | J3 | 47.0 | 28 |
| Dibromomethane | 0.0300 | U | 0.00319 | 0.00469 | 10.6 | 15.6 | 1 | 18.0-144 | J6 | J3 J6 | 38.2 | 27 |
| 1,2-Dichlorobenzene | 0.0300 | U | 0.00186 | 0.00397 | 6.20 | 13.2 | 1 | 10.0-153 | J6 | J3 | 72.3 | 34 |
| 1,3-Dichlorobenzene | 0.0300 | U | 0.00144 | 0.00347 | 4.79 | 11.6 | 1 | 10.0-150 | J6 | J3 | 82.7 | 35 |
| 1,4-Dichlorobenzene | 0.0300 | U | 0.00160 | 0.00378 | 5.35 | 12.6 | 1 | 10.0-148 | J6 | J3 | 80.9 | 34 |
| trans-1,4-Dichloro-2-butene | 0.0300 | U | 0.00355 | 0.00597 | 11.8 | 19.9 | 1 | 10.0-160 | | J3 | 50.9 | 40 |
| Dichlorodifluoromethane | 0.0300 | U | ND | 0.00180 | 0.000 | 5.99 | 1 | 10.0-160 | J6 | J3 J6 | 200 | 30 |
| 1,1-Dichloroethane | 0.0300 | U | 0.00280 | 0.00440 | 9.33 | 14.7 | 1 | 19.0-148 | J6 | J3 J6 | 44.4 | 28 |
| 1,2-Dichloroethane | 0.0300 | U | 0.00319 | 0.00477 | 10.6 | 15.9 | 1 | 17.0-147 | J6 | J3 J6 | 39.8 | 27 |
| 1,1-Dichloroethene | 0.0300 | U | 0.00171 | 0.00301 | 5.68 | 10.0 | 1 | 10.0-150 | J6 | J3 | 55.2 | 31 |
| cis-1,2-Dichloroethene | 0.0300 | U | 0.00257 | 0.00393 | 8.57 | 13.1 | 1 | 16.0-145 | J6 | J3 J6 | 41.7 | 28 |
| trans-1,2-Dichloroethene | 0.0300 | U | 0.00167 | 0.00281 | 5.57 | 9.35 | 1 | 11.0-142 | J6 | J3 J6 | 50.7 | 29 |
| 1,2-Dichloropropane | 0.0300 | U | 0.00275 | 0.00446 | 9.15 | 14.8 | 1 | 17.0-148 | J6 | J3 J6 | 47.4 | 28 |
| 1,1-Dichloropropene | 0.0300 | U | 0.00124 | 0.00279 | 4.11 | 9.30 | 1 | 10.0-150 | J6 | J3 J6 | 77.3 | 30 |
| 1,3-Dichloropropane | 0.0300 | U | 0.00306 | 0.00487 | 10.2 | 16.2 | 1 | 16.0-148 | J6 | J3 | 45.6 | 27 |
| cis-1,3-Dichloropropene | 0.0300 | U | 0.00241 | 0.00396 | 8.04 | 13.2 | 1 | 13.0-150 | J6 | J3 | 48.4 | 28 |
| trans-1,3-Dichloropropene | 0.0300 | U | 0.00251 | 0.00416 | 8.36 | 13.8 | 1 | 10.0-152 | J6 | J3 | 49.4 | 29 |
| 2,2-Dichloropropane | 0.0300 | U | 0.00256 | 0.00423 | 8.51 | 14.1 | 1 | 16.0-143 | J6 | J3 J6 | 49.3 | 30 |

## L933692-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L933692-03 09/02/17 16:24 • (MS) R3246814-5 09/02/17 14:40 • (MSD) R3246814-6 09/02/17 15:06

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Di-isopropyl ether | 0.0300 | U | 0.00282 | 0.00477 | 9.40 | 15.9 | 1 | 16.0-149 | J6 | J3 J6 | 51.4 | 28 |
| Ethylbenzene | 0.0300 | U | 0.00146 | 0.00349 | 4.85 | 11.6 | 1 | 10.0-147 | J6 | J3 | 82.4 | 31 |
| Hexachloro-1,3-butadiene | 0.0300 | U | 0.00132 | 0.00392 | 4.39 | 13.1 | 1 | 10.0-154 | J6 | J3 | 99.3 | 40 |
| 2-Hexanone | 0.150 | U | 0.0200 | 0.0302 | 13.3 | 20.1 | 1 | 12.0-158 | | J3 | 40.4 | 30 |
| n-Hexane | 0.0300 | U | 0.000774 | 0.00194 | 2.58 | 6.46 | 1 | 10.0-140 | J6 | J3 J6 | 85.8 | 34 |
| Iodomethane | 0.150 | U | 0.0120 | 0.0179 | 7.99 | 11.9 | 1 | 10.0-157 | J6 | J3 | 39.5 | 34 |
| Isopropylbenzene | 0.0300 | U | 0.00134 | 0.00371 | 4.47 | 12.3 | 1 | 10.0-147 | J6 | J3 | 93.7 | 33 |
| p-Isopropyltoluene | 0.0300 | U | 0.00106 | 0.00381 | 3.54 | 12.7 | 1 | 10.0-156 | J6 | J3 | 113 | 37 |
| 2-Butanone (MEK) | 0.150 | U | 0.0200 | 0.0279 | 13.3 | 18.6 | 1 | 10.0-160 | | | 32.9 | 33 |
| Methylene Chloride | 0.0300 | U | 0.00276 | 0.00402 | 9.19 | 13.4 | 1 | 16.0-139 | J6 | J3 J6 | 37.2 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.150 | U | 0.0206 | 0.0313 | 13.7 | 20.9 | 1 | 12.0-160 | | J3 | 41.2 | 32 |
| Methyl tert-butyl ether | 0.0300 | U | 0.00339 | 0.00548 | 11.3 | 18.2 | 1 | 21.0-145 | J6 | J3 J6 | 47.0 | 29 |
| Naphthalene | 0.0300 | U | 0.00248 | 0.00418 | 8.27 | 13.9 | 1 | 10.0-153 | J6 | J3 | 50.9 | 36 |
| n-Propylbenzene | 0.0300 | U | 0.00120 | 0.00383 | 4.01 | 12.8 | 1 | 10.0-151 | J6 | J3 | 104 | 34 |
| Styrene | 0.0300 | U | 0.00150 | 0.00339 | 4.98 | 11.3 | 1 | 10.0-155 | J6 | J3 | 77.6 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0300 | U | 0.00274 | 0.00465 | 9.13 | 15.5 | 1 | 10.0-147 | J6 | J3 | 51.7 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0300 | U | 0.00375 | 0.00617 | 12.5 | 20.5 | 1 | 10.0-155 | | J3 | 48.8 | 31 |
| Tetrachloroethene | 0.0300 | U | 0.000876 | 0.00262 | 2.92 | 8.72 | 1 | 10.0-144 | J6 | J3 J6 | 99.7 | 32 |
| Toluene | 0.0300 | U | 0.00185 | 0.00352 | 6.17 | 11.7 | 1 | 10.0-144 | J6 | J3 | 62.2 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0300 | U | 0.00102 | 0.00338 | 3.41 | 11.3 | 1 | 10.0-153 | J6 | J3 | 107 | 33 |
| 1,2,3-Trichlorobenzene | 0.0300 | U | 0.00161 | 0.00341 | 5.36 | 11.4 | 1 | 10.0-153 | J6 | J3 | 71.8 | 40 |
| 1,2,4-Trichlorobenzene | 0.0300 | U | 0.00125 | 0.00318 | 4.18 | 10.6 | 1 | 10.0-156 | J6 | J3 | 86.8 | 40 |
| 1,1,1-Trichloroethane | 0.0300 | U | 0.00244 | 0.00423 | 8.11 | 14.1 | 1 | 18.0-145 | J6 | J3 J6 | 53.9 | 29 |
| 1,1,2-Trichloroethane | 0.0300 | U | 0.00323 | 0.00497 | 10.8 | 16.6 | 1 | 12.0-151 | J6 | J3 | 42.5 | 28 |
| Trichloroethene | 0.0300 | U | 0.00188 | 0.00429 | 6.25 | 14.3 | 1 | 11.0-148 | J6 | J3 | 78.2 | 29 |
| Trichlorofluoromethane | 0.0300 | U | 0.00148 | 0.00304 | 4.94 | 10.1 | 1 | 10.0-157 | J6 | J3 | 68.8 | 34 |
| 1,2,3-Trichloropropane | 0.0300 | U | 0.00438 | 0.00681 | 14.6 | 22.7 | 1 | 10.0-154 | | J3 | 43.5 | 32 |
| 1,2,3-Trimethylbenzene | 0.0300 | U | 0.00161 | 0.00400 | 5.35 | 13.3 | 1 | 10.0-150 | J6 | J3 | 85.4 | 33 |
| 1,2,4-Trimethylbenzene | 0.0300 | U | 0.00126 | 0.00370 | 4.20 | 12.3 | 1 | 10.0-151 | J6 | J3 | 98.3 | 34 |
| 1,3,5-Trimethylbenzene | 0.0300 | U | 0.00121 | 0.00371 | 4.04 | 12.3 | 1 | 10.0-150 | J6 | J3 | 101 | 33 |
| Vinyl acetate | 0.150 | U | 0.0153 | 0.0216 | 10.2 | 14.4 | 1 | 10.0-160 | | | 33.7 | 40 |
| Vinyl chloride | 0.0300 | U | 0.00149 | 0.00225 | 4.98 | 7.50 | 1 | 10.0-150 | J6 | J3 J6 | 40.4 | 29 |
| Xylenes, Total | 0.0901 | U | 0.00435 | 0.0104 | 4.83 | 11.5 | 1 | 10.0-150 | J6 | J3 | 82.1 | 31 |
| *(S) Toluene-d8* | | | | | *95.7* | *96.3* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *111* | *110* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *99.3* | *101* | | *64.0-132* | | | | |

Sample Narrative:

MS: Low recovery due to matrix interference.

## L933692-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L933692-03 09/02/17 16:24 • (MS) R3246814-5 09/02/17 14:40 • (MSD) R3246814-6 09/02/17 15:06

| | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |

MSD: Low recovery due to matrix interference.

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

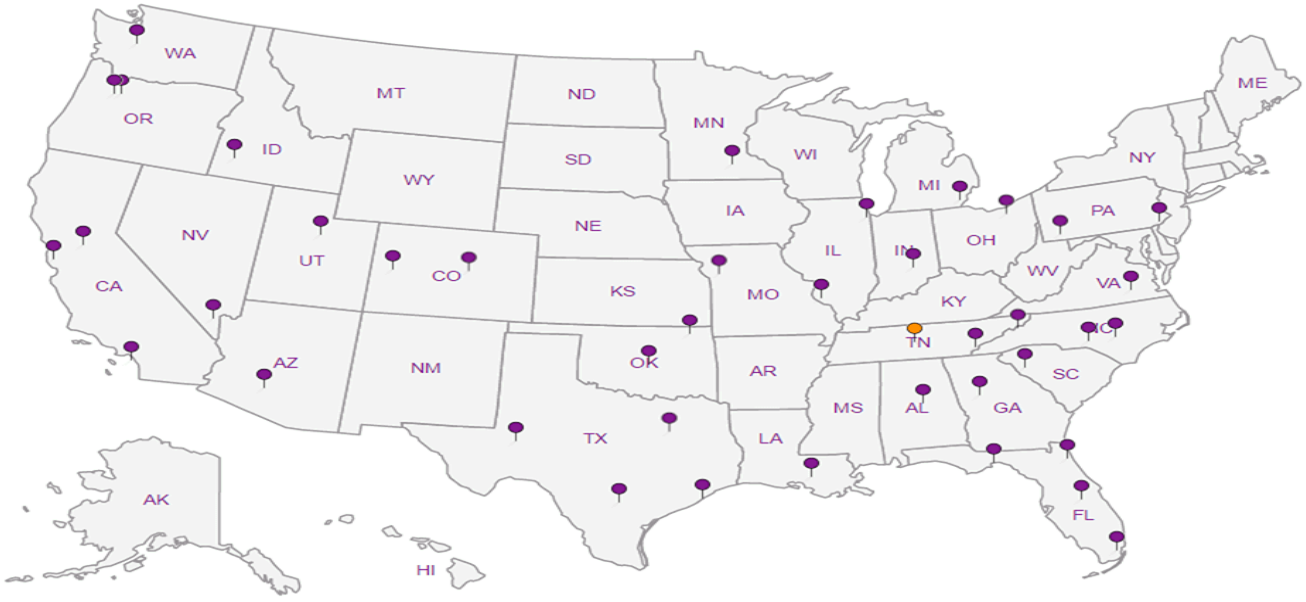
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON MCKERNAN

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~B~~ MW-140-90 | GRAB | SS | 90 | 8/30/17 | 1740 | 4 | | | X | X | | | -01 |
| ~~B~~ MW-137-25 | | SS | 25 | 8/31/17 | 0950 | 5 | X | | X | X | | | 02 |
| ~~B~~ MW-140-~~100~~ 110 | | SS | ~~100~~ 110 | | 1045 | 4 | | | X | X | | | 03 |
| ~~B~~ MW-137-45 | | SS | 45 | | 1140 | 5 | X | | X | X | | | 04 |
| ~~B~~ MW-140-130 | | SS | 130 | | 1240 | 4 | | | X | X | | | 05 |
| ~~B~~ MW-140-140 | | SS | 140 | | 1415 | 4 | | | X | X | | | 06 |
| ~~B~~ MW-137-75 | | SS | 75 | | 1525 | 4 | | | X | X | | | 07 |
| ~~B~~ MW-137-76-W | | GW | 76 | | 1530 | 3 | | X | | | X | | 08 |
| B-905-60-W | | GW | 60 | | 1545 | 3 | | X | | | X | | 09 |
| B- | | GW | | | | 3 | | | | | X | | |

Chain of Custody Page 1 of 1

ESC LABORATORY SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L933455
E076

Acctnum: PESENVSWA
Template: T126584
Prelogin: P613271
TSR: 110 - Brian Ford
PB:

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| | 8/31/17 | 1645 | | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: 2.0 °C Bottles Received: 43 |
| | | | | If preservation required by Login: Date/Time |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 9-1-17 Time: 895 |
| | | | | Hold: Condition: NCF / OK |

# MEMORANDUM

**TO:** Project File **DATE:** October 12, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** August 30-31, 2017 – Soil and Groundwater Samples

**LAB:** ESC Lab ID L933455

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Seven (7) soil samples and two (2) groundwater samples including a field duplicate were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on August 30 and 31, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L933455. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L933455 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

### Sample Collection and Preservation

Samples were collected on August 30 and 31, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 2.0 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

### Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. Holding time criteria were not met:

- Soil samples were collected on August 30 and 31, 2017 and analyzed for percent solids on September 8, 2017 slightly beyond the recommended seven day hold. No action is taken in this case as samples were appropriately preserved and it is unlikely that the holding time exceedances significantly impacted sample results.

### Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C (soil):* Continuing calibration verification (CCV) issues are noted by ESC for acetone, bromobenzene, chloroethane, chloromethane, trans-1,4-dichloro-2-butene, di-isopropyl ether, n-hexane, and 2-butanone (MEK) associated with analytical batch WG1016411 (analyzed on September 6, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **The associated sample MW-140-140 result laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs).

*NWTPH-Gx Method:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDL.

*Total Solids by SM 2540 G 2011:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was not collected.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate (MW-137-76-W and B-905-60-W) results are comparable and less than 30% RPD.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*NWTPH-Gx Method:*
Laboratory duplicate samples were not analyzed. Refer to LCS/LCSDs and MS/MSDs results for precision data on soils and waters.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on client samples MW-140-90 and MW-137-75. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSDs were analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters with one exception:

- LCS (Batch WG1016411) % recoveries for compounds sec-butylbenzene and n-propylbenzene are recovered above criteria. LCSD % recovery results for these compounds are acceptable. No action was taken since these compounds were not detected in the associated soil samples.

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPDs for the control analyte (gasoline) are within the laboratory control criteria for soils and waters.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses on soils were performed on non-client sample within the analytical batch. Refer to LCS/LCSD results for accuracy and precision data since MS/MSD analyses were not performed on the analytical batch associated with the water samples. The MS/MSD %Rs and RPDs for the all target compounds are NOT within the laboratory control criteria for soils with the following discussion:

- MS/MSD (Batch WG1016411) RPD values for multiple compounds are above laboratory acceptance criteria and qualified by the laboratory (J3). MS/MSD recoveries are low and qualified by the laboratory (J6) for multiple compounds due to matrix interference. No

action is taken as the spike was performed on a non-client sample within the analytical batch. Refer to LCS/LCSD results for accuracy and precision data.

*NWTPH-Gx Method:*
MS/MSDs were analyzed by the NWTPH-Gx method on a non-client samples within the analytical batches. The MS/MSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for waters and soils.

**Other Quality Control Issues**

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Sample MW-137-45 was not reanalyzed at a lower dilution due to an insufficient number of low level sodium bisulfite vials. No action was taken other than to note this.

**Compound Identification and Quantitation Limits**

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

**Data Assessment**

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.0 | | 1 | 09/08/2017 09:23 | WG1017807 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0118 | 0.0588 | 1 | 09/02/2017 20:18 | WG1016411 |
| Acrylonitrile | U | | 0.00211 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Benzene | U | | 0.000318 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Bromobenzene | U | | 0.000334 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Bromodichloromethane | U | | 0.000299 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Bromochloromethane | U | | 0.000459 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| Bromoform | U | | 0.000499 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Bromomethane | U | | 0.00158 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| n-Butylbenzene | U | | 0.000303 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| sec-Butylbenzene | U | J4 | 0.000236 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| tert-Butylbenzene | U | | 0.000242 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Carbon disulfide | U | | 0.000260 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Carbon tetrachloride | U | | 0.000386 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Chlorobenzene | U | | 0.000249 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Chlorodibromomethane | U | | 0.000439 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Chloroethane | U | | 0.00111 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| Chloroform | U | | 0.000269 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| Chloromethane | U | | 0.000441 | 0.00294 | 1 | 09/02/2017 20:18 | WG1016411 |
| 2-Chlorotoluene | U | | 0.000354 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 4-Chlorotoluene | U | | 0.000282 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2-Dibromoethane | U | | 0.000403 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Dibromomethane | U | | 0.000449 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2-Dichlorobenzene | U | | 0.000359 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,3-Dichlorobenzene | U | | 0.000281 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,4-Dichlorobenzene | U | | 0.000266 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Dichlorodifluoromethane | U | | 0.000839 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1-Dichloroethane | U | | 0.000234 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2-Dichloroethane | U | | 0.000312 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1-Dichloroethene | U | | 0.000356 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| cis-1,2-Dichloroethene | U | | 0.000276 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| trans-1,2-Dichloroethene | U | | 0.000311 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2-Dichloropropane | U | | 0.000421 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1-Dichloropropene | U | | 0.000373 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,3-Dichloropropane | U | | 0.000244 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| cis-1,3-Dichloropropene | U | | 0.000308 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| trans-1,3-Dichloropropene | U | | 0.000314 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| trans-1,4-Dichloro-2-butene | U | | 0.000915 | 0.00294 | 1 | 09/02/2017 20:18 | WG1016411 |
| 2,2-Dichloropropane | U | | 0.000328 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Di-isopropyl ether | U | | 0.000292 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Ethylbenzene | U | | 0.000349 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Hexachloro-1,3-butadiene | U | | 0.000402 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 2-Hexanone | U | | 0.00161 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |
| n-Hexane | 0.00188 J | J | 0.000341 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Iodomethane | U | | 0.00298 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Isopropylbenzene | U | | 0.000286 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| p-Isopropyltoluene | U | | 0.000240 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 2-Butanone (MEK) | U | | 0.00551 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Methylene Chloride | U | | 0.00118 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00221 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |

JC 10/12/17

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000249 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Naphthalene | U | | 0.00118 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.000242 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Styrene | U | | 0.000275 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000311 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000429 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000429 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Tetrachloroethene | U | | 0.000325 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Toluene | U | | 0.000511 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.000360 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.000456 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.000336 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.000326 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Trichloroethene | U | | 0.000328 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Trichlorofluoromethane | U | | 0.000449 | 0.00588 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.000872 | 0.00294 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.000248 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.000338 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.000313 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Vinyl acetate | U | | 0.00281 | 0.0118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Vinyl chloride | U | | 0.000342 | 0.00118 | 1 | 09/02/2017 20:18 | WG1016411 |
| Xylenes, Total | U | | 0.000821 | 0.00353 | 1 | 09/02/2017 20:18 | WG1016411 |
| *(S) Toluene-d8* | *94.3* | | | *80.0-120* | | *09/02/2017 20:18* | WG1016411 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *09/02/2017 20:18* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/02/2017 20:18* | WG1016411 |

JC 10/12/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.7 | | 1 | 09/08/2017 09:23 | WG1017807 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0370 | 0.109 | 1 | 09/05/2017 19:57 | WG1016832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.8* | | | *77.0-120* | | *09/05/2017 19:57* | WG1016832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U | | 0.0109 | 0.0545 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Bromomethane | U | | 0.00146 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 | |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| sec-Butylbenzene | U | J4 | 0.000219 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Carbon disulfide | U | | 0.000241 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Chloroform | U | | 0.000250 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Chloromethane | U | | 0.000409 | 0.00273 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Dichlorodifluoromethane | U | | 0.000778 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| cis-1,2-Dichloroethene | 0.000783 J | J | 0.000256 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| trans-1,4-Dichloro-2-butene | U | | 0.000849 | 0.00273 | 1 | 09/02/2017 20:44 | WG1016411 | JC 10/12/17 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 | |
| n-Hexane | 0.00162 J | J | 0.000316 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 | |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.000225 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000398 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Tetrachloroethene | 0.00174 | | 0.000301 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Trichloroethene | 0.00245 | | 0.000304 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Trichlorofluoromethane | U | | 0.000417 | 0.00545 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.000808 | 0.00273 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Vinyl chloride | U | | 0.000317 | 0.00109 | 1 | 09/02/2017 20:44 | WG1016411 |
| Xylenes, Total | U | | 0.000761 | 0.00327 | 1 | 09/02/2017 20:44 | WG1016411 |
| *(S) Toluene-d8* | *96.2* | | | *80.0-120* | | *09/02/2017 20:44* | WG1016411 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/02/2017 20:44* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/02/2017 20:44* | WG1016411 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.4 | | 1 | 09/08/2017 09:23 | WG1017807 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0579 | 1 | 09/02/2017 21:10 | WG1016411 |
| Acrylonitrile | U | | 0.00207 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Bromobenzene | U | | 0.000329 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Bromochloromethane | U | | 0.000452 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| Bromoform | U | | 0.000491 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Bromomethane | U | | 0.00155 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| sec-Butylbenzene | U | J4 | 0.000233 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Carbon disulfide | U | | 0.000256 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Carbon tetrachloride | U | | 0.000380 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Chlorobenzene | U | | 0.000245 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Chlorodibromomethane | U | | 0.000432 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Chloroethane | U | | 0.00110 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| Chloroform | U | | 0.000265 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| Chloromethane | U | | 0.000434 | 0.00290 | 1 | 09/02/2017 21:10 | WG1016411 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2-Dibromoethane | U | | 0.000397 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Dibromomethane | U | | 0.000442 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Dichlorodifluoromethane | U | | 0.000826 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1-Dichloroethene | U | | 0.000351 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| cis-1,2-Dichloroethene | U | | 0.000272 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| trans-1,2-Dichloroethene | U | | 0.000306 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2-Dichloropropane | U | | 0.000415 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1-Dichloropropene | U | | 0.000367 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| cis-1,3-Dichloropropene | U | | 0.000303 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| trans-1,4-Dichloro-2-butene | U | | 0.000901 | 0.00290 | 1 | 09/02/2017 21:10 | WG1016411 |
| 2,2-Dichloropropane | U | | 0.000323 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Di-isopropyl ether | U | | 0.000287 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Ethylbenzene | U | | 0.000344 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Hexachloro-1,3-butadiene | U | | 0.000396 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |
| n-Hexane | 0.000364 J | J | 0.000336 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Iodomethane | U | | 0.00293 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Isopropylbenzene | U | | 0.000281 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 2-Butanone (MEK) | U | | 0.00542 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Methylene Chloride | U | | 0.00116 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000245 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Naphthalene | U | | 0.00116 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.000239 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000423 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000423 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Toluene | U | | 0.000503 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.000449 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Trichloroethene | U | | 0.000323 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Trichlorofluoromethane | U | | 0.000442 | 0.00579 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.000858 | 0.00290 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.000332 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Vinyl chloride | U | | 0.000337 | 0.00116 | 1 | 09/02/2017 21:10 | WG1016411 |
| Xylenes, Total | U | | 0.000808 | 0.00347 | 1 | 09/02/2017 21:10 | WG1016411 |
| *(S) Toluene-d8* | *96.8* | | | *80.0-120* | | *09/02/2017 21:10* | WG1016411 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *09/02/2017 21:10* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/02/2017 21:10* | WG1016411 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.4 | | 1 | 09/08/2017 09:23 | WG1017807 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0384 | 0.113 | 1 | 09/05/2017 20:19 | WG1016832 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.3* | | | *77.0-120* | | *09/05/2017 20:19* | WG1016832 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U | | 0.283 | 1.41 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Acrylonitrile | U | | 0.0507 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Benzene | U | | 0.00764 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Bromobenzene | U | | 0.00803 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Bromodichloromethane | U | | 0.00719 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Bromochloromethane | U | | 0.0110 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Bromoform | U | | 0.0120 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Bromomethane | U | | 0.0379 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 | |
| n-Butylbenzene | U | | 0.00730 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| sec-Butylbenzene | U | J4 | 0.00568 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| tert-Butylbenzene | U | | 0.00583 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Carbon disulfide | U | | 0.00625 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Carbon tetrachloride | U | | 0.00928 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Chlorobenzene | U | | 0.00600 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Chlorodibromomethane | U | | 0.0105 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Chloroethane | U | | 0.0267 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Chloroform | U | | 0.00647 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Chloromethane | U | | 0.0106 | 0.0707 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 2-Chlorotoluene | U | | 0.00851 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 4-Chlorotoluene | U | | 0.00679 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0296 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 1,2-Dibromoethane | U | | 0.00971 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Dibromomethane | U | | 0.0108 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 1,2-Dichlorobenzene | U | | 0.00862 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 1,3-Dichlorobenzene | U | | 0.00677 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 1,4-Dichlorobenzene | U | | 0.00639 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Dichlorodifluoromethane | U | | 0.0201 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 1,1-Dichloroethane | U | | 0.00564 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 1,2-Dichloroethane | U | | 0.00749 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 1,1-Dichloroethene | U | | 0.00858 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| cis-1,2-Dichloroethene | 0.00753 J | J | 0.00665 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| trans-1,2-Dichloroethene | U | | 0.00747 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 1,2-Dichloropropane | U | | 0.0101 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 1,1-Dichloropropene | U | | 0.00896 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 1,3-Dichloropropane | U | | 0.00586 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| cis-1,3-Dichloropropene | U | | 0.00741 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| trans-1,3-Dichloropropene | U | | 0.00756 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| trans-1,4-Dichloro-2-butene | U | | 0.0220 | 0.0707 | 25 | 09/05/2017 16:45 | WG1016411 | JC 10/12/17 |
| 2,2-Dichloropropane | U | | 0.00790 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Di-isopropyl ether | U | | 0.00702 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Ethylbenzene | U | | 0.00840 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| Hexachloro-1,3-butadiene | U | | 0.00968 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| 2-Hexanone | U | | 0.0387 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 | |
| n-Hexane | 0.0117 J | J | 0.00820 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 | |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0715 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Isopropylbenzene | U | | 0.00688 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| p-Isopropyltoluene | U | | 0.00577 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 2-Butanone (MEK) | U | | 0.132 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Methylene Chloride | U | | 0.0283 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0532 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Methyl tert-butyl ether | U | | 0.00600 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Naphthalene | U | | 0.0283 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.00583 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Styrene | U | | 0.00662 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00747 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0103 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0103 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Tetrachloroethene | U | | 0.00781 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Toluene | U | | 0.0122 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.00866 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.0110 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.00809 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.00783 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Trichloroethene | U | | 0.00790 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Trichlorofluoromethane | U | | 0.0108 | 0.141 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.0209 | 0.0707 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.00597 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.00813 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.00753 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Vinyl acetate | U | | 0.0677 | 0.283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Vinyl chloride | U | | 0.00824 | 0.0283 | 25 | 09/05/2017 16:45 | WG1016411 |
| Xylenes, Total | U | | 0.0197 | 0.0849 | 25 | 09/05/2017 16:45 | WG1016411 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/05/2017 16:45* | WG1016411 |
| *(S) Dibromofluoromethane* | *98.9* | | | *74.0-131* | | *09/05/2017 16:45* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *98.8* | | | *64.0-132* | | *09/05/2017 16:45* | WG1016411 |

**Sample Narrative:**

L933455-04 WG1016411: No low level sodium bisulfite vial remaining.

JC 10/12/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.4 | | 1 | 09/08/2017 09:23 | WG1017807 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0113 | 0.0565 | 1 | 09/05/2017 17:11 | WG1016411 |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Benzene | U | | 0.000305 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Bromobenzene | U | | 0.000321 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Bromodichloromethane | U | | 0.000287 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Bromochloromethane | U | | 0.000441 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| Bromoform | U | | 0.000479 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Bromomethane | U | | 0.00152 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| n-Butylbenzene | U | | 0.000292 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| sec-Butylbenzene | U | J4 | 0.000227 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| tert-Butylbenzene | U | | 0.000233 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Carbon disulfide | U | | 0.000250 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Carbon tetrachloride | U | | 0.000371 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Chlorobenzene | U | | 0.000240 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Chlorodibromomethane | U | | 0.000422 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Chloroethane | U | | 0.00107 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| Chloroform | U | | 0.000259 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| Chloromethane | U | | 0.000424 | 0.00283 | 1 | 09/05/2017 17:11 | WG1016411 |
| 2-Chlorotoluene | U | | 0.000340 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 4-Chlorotoluene | U | | 0.000271 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2-Dibromoethane | U | | 0.000388 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Dibromomethane | U | | 0.000432 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2-Dichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,3-Dichlorobenzene | U | | 0.000270 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Dichlorodifluoromethane | U | | 0.000806 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2-Dichloroethane | U | | 0.000300 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1-Dichloroethene | U | | 0.000343 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| cis-1,2-Dichloroethene | U | | 0.000266 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| trans-1,2-Dichloroethene | U | | 0.000298 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2-Dichloropropane | U | | 0.000405 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1-Dichloropropene | U | | 0.000358 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| cis-1,3-Dichloropropene | U | | 0.000296 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| trans-1,3-Dichloropropene | U | | 0.000302 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| trans-1,4-Dichloro-2-butene | U | | 0.000880 | 0.00283 | 1 | 09/05/2017 17:11 | WG1016411 |
| 2,2-Dichloropropane | U | | 0.000315 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Di-isopropyl ether | U | | 0.000280 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Ethylbenzene | U | | 0.000336 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Hexachloro-1,3-butadiene | U | | 0.000387 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |
| n-Hexane | 0.000357 | J J | 0.000328 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Iodomethane | U | | 0.00286 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Isopropylbenzene | U | | 0.000275 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| p-Isopropyltoluene | U | | 0.000231 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 2-Butanone (MEK) | U | | 0.00529 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Methylene Chloride | U | | 0.00113 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00213 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000240 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Naphthalene | U | | 0.00113 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.000233 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Styrene | U | | 0.000265 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000298 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000413 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000413 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Tetrachloroethene | U | | 0.000312 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Toluene | U | | 0.000491 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.000439 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.000323 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.000313 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Trichloroethene | U | | 0.000315 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Trichlorofluoromethane | U | | 0.000432 | 0.00565 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.000838 | 0.00283 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.000239 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.000324 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.000301 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Vinyl acetate | U | | 0.00270 | 0.0113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Vinyl chloride | U | | 0.000329 | 0.00113 | 1 | 09/05/2017 17:11 | WG1016411 |
| Xylenes, Total | U | | 0.000789 | 0.00339 | 1 | 09/05/2017 17:11 | WG1016411 |
| *(S) Toluene-d8* | *95.1* | | | *80.0-120* | | *09/05/2017 17:11* | WG1016411 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/05/2017 17:11* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/05/2017 17:11* | WG1016411 |

JC 10/12/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.5 | | 1 | 09/08/2017 09:23 | WG1017807 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U UJ | J0 | 0.282 | 1.41 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Acrylonitrile | U | | 0.0506 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Benzene | U | | 0.00762 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Bromobenzene | U UJ | J0 | 0.00802 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Bromodichloromethane | U | | 0.00717 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Bromochloromethane | U | | 0.0110 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Bromoform | U | | 0.0120 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Bromomethane | U | | 0.0378 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 | |
| n-Butylbenzene | U | | 0.00728 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| sec-Butylbenzene | U | J4 | 0.00567 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| tert-Butylbenzene | U | | 0.00582 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Carbon disulfide | U | | 0.00623 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Carbon tetrachloride | U | | 0.00926 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Chlorobenzene | U | | 0.00599 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Chlorodibromomethane | U | | 0.0105 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Chloroethane | U UJ | J0 | 0.0267 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Chloroform | U | | 0.00646 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Chloromethane | U UJ | J0 | 0.0106 | 0.0706 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 2-Chlorotoluene | U | | 0.00849 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 4-Chlorotoluene | U | | 0.00678 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0296 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 1,2-Dibromoethane | U | | 0.00969 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Dibromomethane | U | | 0.0108 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 1,2-Dichlorobenzene | U | | 0.00861 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 1,3-Dichlorobenzene | U | | 0.00675 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 1,4-Dichlorobenzene | U | | 0.00638 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Dichlorodifluoromethane | U | | 0.0201 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 1,1-Dichloroethane | U | | 0.00562 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 1,2-Dichloroethane | U | | 0.00748 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 1,1-Dichloroethene | U | | 0.00856 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| cis-1,2-Dichloroethene | U | | 0.00664 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| trans-1,2-Dichloroethene | U | | 0.00745 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 1,2-Dichloropropane | U | | 0.0101 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 1,1-Dichloropropene | U | | 0.00894 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 1,3-Dichloropropane | U | | 0.00585 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | JC 10/12/17 |
| cis-1,3-Dichloropropene | U | | 0.00740 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| trans-1,3-Dichloropropene | U | | 0.00754 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.0219 | 0.0706 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 2,2-Dichloropropane | U | | 0.00788 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Di-isopropyl ether | U UJ | J0 | 0.00700 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Ethylbenzene | U | | 0.00838 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Hexachloro-1,3-butadiene | U | | 0.00966 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 2-Hexanone | U | | 0.0386 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| n-Hexane | 0.0157 J | J J0 | 0.00819 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Iodomethane | U | | 0.0714 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Isopropylbenzene | U | | 0.00687 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| p-Isopropyltoluene | U | | 0.00576 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 2-Butanone (MEK) | U UJ | J0 | 0.132 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 | |
| Methylene Chloride | U | | 0.0282 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 | |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0531 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 | |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.00599 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Naphthalene | U | | 0.0282 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.00582 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Styrene | U | | 0.00661 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00745 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0103 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0103 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Tetrachloroethene | U | | 0.00779 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Toluene | U | | 0.0122 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.00864 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.0110 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.00808 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.00782 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Trichloroethene | U | | 0.00788 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Trichlorofluoromethane | U | | 0.0108 | 0.141 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.0209 | 0.0706 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.00596 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.00811 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.00751 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Vinyl acetate | U | | 0.0675 | 0.282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Vinyl chloride | U | | 0.00822 | 0.0282 | 25 | 09/06/2017 12:42 | WG1016411 |
| Xylenes, Total | U | | 0.0197 | 0.0847 | 25 | 09/06/2017 12:42 | WG1016411 |
| *(S) Toluene-d8* | *113* | | | *80.0-120* | | *09/06/2017 12:42* | WG1016411 |
| *(S) Dibromofluoromethane* | *89.7* | | | *74.0-131* | | *09/06/2017 12:42* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *93.7* | | | *64.0-132* | | *09/06/2017 12:42* | WG1016411 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.1 | | 1 | 09/07/2017 16:54 | WG1017937 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0138 J | J | 0.0110 | 0.0549 | 1 | 09/05/2017 18:02 | WG1016411 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Benzene | 0.000533 J | J | 0.000296 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Bromobenzene | U | | 0.000312 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Bromodichloromethane | U | | 0.000279 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Bromochloromethane | U | | 0.000428 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| Bromoform | U | | 0.000466 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Bromomethane | U | | 0.00147 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| n-Butylbenzene | U | | 0.000283 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| sec-Butylbenzene | U | J4 | 0.000221 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| tert-Butylbenzene | U | | 0.000226 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Carbon disulfide | 0.000859 J | J | 0.000243 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Carbon tetrachloride | U | | 0.000360 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Chlorodibromomethane | U | | 0.000410 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Chloroethane | U | | 0.00104 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| Chloroform | U | | 0.000251 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| Chloromethane | U | | 0.000412 | 0.00274 | 1 | 09/05/2017 18:02 | WG1016411 |
| 2-Chlorotoluene | U | | 0.000330 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 4-Chlorotoluene | U | | 0.000264 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2-Dibromoethane | U | | 0.000377 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Dibromomethane | U | | 0.000419 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2-Dichlorobenzene | U | | 0.000335 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,3-Dichlorobenzene | U | | 0.000262 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,4-Dichlorobenzene | U | | 0.000248 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Dichlorodifluoromethane | U | | 0.000783 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1-Dichloroethane | U | | 0.000218 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2-Dichloroethane | U | | 0.000291 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1-Dichloroethene | U | | 0.000333 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| cis-1,2-Dichloroethene | U | | 0.000258 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| trans-1,2-Dichloroethene | U | | 0.000290 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2-Dichloropropane | U | | 0.000393 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1-Dichloropropene | U | | 0.000348 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,3-Dichloropropane | U | | 0.000227 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| cis-1,3-Dichloropropene | U | | 0.000288 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| trans-1,3-Dichloropropene | U | | 0.000293 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| trans-1,4-Dichloro-2-butene | U | | 0.000854 | 0.00274 | 1 | 09/05/2017 18:02 | WG1016411 |
| 2,2-Dichloropropane | U | | 0.000306 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Di-isopropyl ether | U | | 0.000272 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Ethylbenzene | U | | 0.000326 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Hexachloro-1,3-butadiene | U | | 0.000375 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 2-Hexanone | U | | 0.00150 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |
| n-Hexane | U | | 0.000318 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Iodomethane | U | | 0.00278 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Isopropylbenzene | U | | 0.000267 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| p-Isopropyltoluene | U | | 0.000224 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 2-Butanone (MEK) | U | | 0.00514 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Methylene Chloride | U | | 0.00110 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00206 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Naphthalene | U | | 0.00110 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| n-Propylbenzene | U | J4 | 0.000226 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Styrene | U | | 0.000257 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000290 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000401 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000401 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Tetrachloroethene | U | | 0.000303 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Toluene | U | | 0.000477 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2,3-Trichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2,4-Trichlorobenzene | U | | 0.000426 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1,1-Trichloroethane | U | | 0.000314 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,1,2-Trichloroethane | U | | 0.000304 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Trichloroethene | U | | 0.000306 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Trichlorofluoromethane | U | | 0.000419 | 0.00549 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2,3-Trichloropropane | U | | 0.000814 | 0.00274 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,2,3-Trimethylbenzene | U | | 0.000315 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| 1,3,5-Trimethylbenzene | U | | 0.000292 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Vinyl acetate | U | | 0.00262 | 0.0110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Vinyl chloride | U | | 0.000319 | 0.00110 | 1 | 09/05/2017 18:02 | WG1016411 |
| Xylenes, Total | U | | 0.000766 | 0.00329 | 1 | 09/05/2017 18:02 | WG1016411 |
| *(S) Toluene-d8* | *95.7* | | | *80.0-120* | | *09/05/2017 18:02* | WG1016411 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *09/05/2017 18:02* | WG1016411 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/05/2017 18:02* | WG1016411 |

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## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 745 | | 158 | 500 | 5 | 09/03/2017 18:37 | WG1016529 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.9* | | | *77.0-122* | | *09/03/2017 18:37* | WG1016529 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 44.6 J | J | 5.25 | 125 | 5 | 09/02/2017 17:10 | WG1016388 |
| Acrylonitrile | U | | 4.36 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| Benzene | 0.658 J | J | 0.448 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Bromobenzene | U | | 0.665 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Bromodichloromethane | U | | 0.400 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Bromochloromethane | U | | 0.725 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Bromoform | U | | 0.930 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Bromomethane | U | | 0.785 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| n-Butylbenzene | U | | 0.715 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| sec-Butylbenzene | U | | 0.670 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| tert-Butylbenzene | U | | 0.915 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Carbon disulfide | U | | 0.505 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Carbon tetrachloride | U | | 0.795 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Chlorobenzene | U | | 0.700 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Chlorodibromomethane | U | | 0.640 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Chloroethane | U | | 0.705 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| Chloroform | U | | 0.430 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Chloromethane | U | | 0.765 | 6.25 | 5 | 09/02/2017 17:10 | WG1016388 |
| 2-Chlorotoluene | U | | 0.555 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 4-Chlorotoluene | U | | 0.486 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.62 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2-Dibromoethane | U | | 0.965 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Dibromomethane | U | | 0.585 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2-Dichlorobenzene | U | | 0.505 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,3-Dichlorobenzene | U | | 0.650 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,4-Dichlorobenzene | U | | 0.605 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Dichlorodifluoromethane | U | | 0.635 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1-Dichloroethane | U | | 0.570 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2-Dichloroethane | U | | 0.540 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1-Dichloroethene | U | | 0.940 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| cis-1,2-Dichloroethene | 4.46 | | 0.466 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| trans-1,2-Dichloroethene | U | | 0.760 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2-Dichloropropane | U | | 0.950 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1-Dichloropropene | U | | 0.640 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,3-Dichloropropane | U | | 0.735 | 5.00 | 5 | 09/02/2017 17:10 | WG1016388 |
| cis-1,3-Dichloropropene | U | | 0.488 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| trans-1,3-Dichloropropene | U | | 1.11 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 JC 10/12/17 |
| trans-1,4-Dichloro-2-butene | U | | 1.28 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| 2,2-Dichloropropane | U | | 0.464 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Di-isopropyl ether | U | | 0.462 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Ethylbenzene | U | | 0.790 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Hexachloro-1,3-butadiene | U | | 0.785 | 5.00 | 5 | 09/02/2017 17:10 | WG1016388 |
| 2-Hexanone | U | | 3.78 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| n-Hexane | 2.43 J | J | 1.52 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| Iodomethane | U | | 1.88 | 50.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| Isopropylbenzene | U | | 0.630 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| p-Isopropyltoluene | U | | 0.690 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 2-Butanone (MEK) | 12.2 J | J | 6.40 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 5.35 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| 4-Methyl-2-pentanone (MIBK) | U | | 4.12 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| Methyl tert-butyl ether | U | | 0.510 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Naphthalene | U | | 0.870 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| n-Propylbenzene | U | | 0.810 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Styrene | U | | 0.585 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1,1,2-Tetrachloroethane | U | | 0.600 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1,2,2-Tetrachloroethane | U | | 0.650 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.820 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Tetrachloroethene | U | | 0.995 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Toluene | 151 | | 2.06 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2,3-Trichlorobenzene | U | | 0.820 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2,4-Trichlorobenzene | U | | 1.78 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1,1-Trichloroethane | U | | 0.470 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,1,2-Trichloroethane | U | | 0.930 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Trichloroethene | U | | 0.765 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Trichlorofluoromethane | U | | 0.650 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2,3-Trichloropropane | U | | 1.24 | 12.5 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2,4-Trimethylbenzene | U | | 0.615 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,2,3-Trimethylbenzene | U | | 0.370 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| 1,3,5-Trimethylbenzene | U | | 0.620 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Vinyl acetate | U | | 3.22 | 25.0 | 5 | 09/02/2017 17:10 | WG1016388 |
| Vinyl chloride | U | | 0.590 | 2.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| Xylenes, Total | U | | 1.58 | 7.50 | 5 | 09/02/2017 17:10 | WG1016388 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/02/2017 17:10* | WG1016388 |
| *(S) Dibromofluoromethane* | *105* | | | *76.0-123* | | *09/02/2017 17:10* | WG1016388 |
| *(S) 4-Bromofluorobenzene* | *99.0* | | | *80.0-120* | | *09/02/2017 17:10* | WG1016388 |

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## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 631 | | 31.6 | 100 | 1 | 09/03/2017 19:01 | WG1016529 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-122* | | *09/03/2017 19:01* | WG1016529 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 45.1 J | J | 5.25 | 125 | 5 | 09/02/2017 17:30 | WG1016388 |
| Acrylonitrile | U | | 4.36 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| Benzene | U | | 0.448 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Bromobenzene | U | | 0.665 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Bromodichloromethane | U | | 0.400 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Bromochloromethane | U | | 0.725 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Bromoform | U | | 0.930 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Bromomethane | U | | 0.785 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| n-Butylbenzene | U | | 0.715 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| sec-Butylbenzene | U | | 0.670 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| tert-Butylbenzene | U | | 0.915 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Carbon disulfide | U | | 0.505 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Carbon tetrachloride | U | | 0.795 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Chlorobenzene | U | | 0.700 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Chlorodibromomethane | U | | 0.640 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Chloroethane | U | | 0.705 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| Chloroform | U | | 0.430 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Chloromethane | U | | 0.765 | 6.25 | 5 | 09/02/2017 17:30 | WG1016388 |
| 2-Chlorotoluene | U | | 0.555 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 4-Chlorotoluene | U | | 0.486 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.62 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2-Dibromoethane | U | | 0.965 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Dibromomethane | U | | 0.585 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2-Dichlorobenzene | U | | 0.505 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,3-Dichlorobenzene | U | | 0.650 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,4-Dichlorobenzene | U | | 0.605 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Dichlorodifluoromethane | U | | 0.635 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1-Dichloroethane | U | | 0.570 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2-Dichloroethane | U | | 0.540 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1-Dichloroethene | U | | 0.940 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| cis-1,2-Dichloroethene | 2.86 | | 0.466 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| trans-1,2-Dichloroethene | U | | 0.760 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2-Dichloropropane | U | | 0.950 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1-Dichloropropene | U | | 0.640 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,3-Dichloropropane | U | | 0.735 | 5.00 | 5 | 09/02/2017 17:30 | WG1016388 |
| cis-1,3-Dichloropropene | U | | 0.488 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| trans-1,3-Dichloropropene | U | | 1.11 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| trans-1,4-Dichloro-2-butene | U | | 1.28 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| 2,2-Dichloropropane | U | | 0.464 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Di-isopropyl ether | U | | 0.462 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Ethylbenzene | U | | 0.790 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Hexachloro-1,3-butadiene | U | | 0.785 | 5.00 | 5 | 09/02/2017 17:30 | WG1016388 |
| 2-Hexanone | U | | 3.78 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| n-Hexane | U | | 1.52 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| Iodomethane | U | | 1.88 | 50.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| Isopropylbenzene | U | | 0.630 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| p-Isopropyltoluene | U | | 0.690 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 2-Butanone (MEK) | 9.66 J | J | 6.40 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |

JC 10/12/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 5.35 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| 4-Methyl-2-pentanone (MIBK) | U | | 4.12 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| Methyl tert-butyl ether | U | | 0.510 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Naphthalene | U | | 0.870 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| n-Propylbenzene | U | | 0.810 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Styrene | U | | 0.585 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1,1,2-Tetrachloroethane | U | | 0.600 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1,2,2-Tetrachloroethane | U | | 0.650 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.820 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Tetrachloroethene | U | | 0.995 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Toluene | 105 | | 2.06 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2,3-Trichlorobenzene | U | | 0.820 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2,4-Trichlorobenzene | U | | 1.78 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1,1-Trichloroethane | U | | 0.470 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,1,2-Trichloroethane | U | | 0.930 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Trichloroethene | U | | 0.765 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Trichlorofluoromethane | U | | 0.650 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2,3-Trichloropropane | U | | 1.24 | 12.5 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2,4-Trimethylbenzene | U | | 0.615 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,2,3-Trimethylbenzene | U | | 0.370 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| 1,3,5-Trimethylbenzene | U | | 0.620 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Vinyl acetate | U | | 3.22 | 25.0 | 5 | 09/02/2017 17:30 | WG1016388 |
| Vinyl chloride | U | | 0.590 | 2.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| Xylenes, Total | U | | 1.58 | 7.50 | 5 | 09/02/2017 17:30 | WG1016388 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/02/2017 17:30* | WG1016388 |
| *(S) Dibromofluoromethane* | *103* | | | *76.0-123* | | *09/02/2017 17:30* | WG1016388 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *80.0-120* | | *09/02/2017 17:30* | WG1016388 |

JC 10/12/17

# ANALYTICAL REPORT

September 21, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L933742 |
| Samples Received: | 09/02/2017 |
| Project Number: | 1413.001.02.002 |
| Description: | American Linen Supply |
| Site: | 1413.001.02.002 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## MW-137-85 L933742-01 Solid

Collected by: Shannon McKernan | Collected date/time: 09/01/17 08:20 | Received date/time: 09/02/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018229 | 1 | 09/08/17 15:36 | 09/08/17 15:56 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1018662 | 1 | 09/01/17 08:20 | 09/10/17 03:47 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017429 | 1 | 09/01/17 08:20 | 09/07/17 01:06 | JHH |

## MW-137-95 L933742-02 Solid

Collected by: Shannon McKernan | Collected date/time: 09/01/17 09:00 | Received date/time: 09/02/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018229 | 1 | 09/08/17 15:36 | 09/08/17 15:56 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1018662 | 1 | 09/01/17 09:00 | 09/10/17 04:09 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017429 | 1 | 09/01/17 09:00 | 09/07/17 01:28 | JHH |

## B-216-20 L933742-03 Solid

Collected by: Shannon McKernan | Collected date/time: 09/01/17 09:15 | Received date/time: 09/02/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018229 | 1 | 09/08/17 15:36 | 09/08/17 15:56 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017429 | 1 | 09/01/17 09:15 | 09/07/17 01:49 | JHH |

## B-216-40 L933742-04 Solid

Collected by: Shannon McKernan | Collected date/time: 09/01/17 10:10 | Received date/time: 09/02/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018229 | 1 | 09/08/17 15:36 | 09/08/17 15:56 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017429 | 1 | 09/01/17 10:10 | 09/07/17 02:11 | JHH |

## B-216-50 L933742-05 Solid

Collected by: Shannon McKernan | Collected date/time: 09/01/17 10:35 | Received date/time: 09/02/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018229 | 1 | 09/08/17 15:36 | 09/08/17 15:56 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017429 | 1 | 09/01/17 10:35 | 09/07/17 02:33 | JHH |

## MW-137-115 L933742-06 Solid

Collected by: Shannon McKernan | Collected date/time: 09/01/17 11:45 | Received date/time: 09/02/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018229 | 1 | 09/08/17 15:36 | 09/08/17 15:56 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1018662 | 1 | 09/01/17 11:45 | 09/10/17 04:32 | DWR |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017429 | 1 | 09/01/17 11:45 | 09/07/17 02:55 | JHH |

## B-216-65 L933742-07 Solid

Collected by: Shannon McKernan | Collected date/time: 09/01/17 11:45 | Received date/time: 09/02/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018229 | 1 | 09/08/17 15:36 | 09/08/17 15:56 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017429 | 1 | 09/01/17 11:45 | 09/07/17 17:50 | BMB |

## B-216-55 L933742-08 Solid

Collected by: Shannon McKernan | Collected date/time: 09/01/17 12:15 | Received date/time: 09/02/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018229 | 1 | 09/08/17 15:36 | 09/08/17 15:56 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017429 | 1 | 09/01/17 12:15 | 09/07/17 03:17 | JHH |

## B-216-85 L933742-09 Solid

Collected by: Shannon McKernan | Collected date/time: 09/01/17 13:00 | Received date/time: 09/02/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018229 | 1 | 09/08/17 15:36 | 09/08/17 15:56 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017429 | 1 | 09/01/17 13:00 | 09/07/17 03:39 | JHH |

## B-216-95 L933742-10 Solid

Collected by: Shannon McKernan | Collected date/time: 09/01/17 13:30 | Received date/time: 09/02/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018229 | 1 | 09/08/17 15:36 | 09/08/17 15:56 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017434 | 1 | 09/01/17 13:30 | 09/07/17 00:42 | JHH |

## TRIP BLANK-090117 L933742-11 GW

Collected by: Shannon McKernan | Collected date/time: 09/01/17 00:00 | Received date/time: 09/02/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017271 | 1 | 09/06/17 14:03 | 09/06/17 14:03 | BMB |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.4 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0406 | 0.120 | 1 | 09/10/2017 03:47 | WG1018662 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.5* | | | *77.0-120* | | *09/10/2017 03:47* | WG1018662 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0120 | 0.0599 | 1 | 09/07/2017 01:06 | WG1017429 |
| Acrylonitrile | U | | 0.00215 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Benzene | U | | 0.000324 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Bromobenzene | U | | 0.000340 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Bromodichloromethane | U | | 0.000304 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Bromochloromethane | U | | 0.000467 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| Bromoform | U | | 0.000508 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Bromomethane | U | | 0.00161 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| n-Butylbenzene | U | | 0.000309 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| sec-Butylbenzene | U | | 0.000241 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| tert-Butylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Carbon disulfide | 0.00141 | | 0.000265 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Carbon tetrachloride | U | | 0.000393 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Chlorobenzene | U | | 0.000254 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Chlorodibromomethane | U | | 0.000447 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Chloroethane | U | | 0.00113 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| Chloroform | U | | 0.000274 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| Chloromethane | U | | 0.000449 | 0.00300 | 1 | 09/07/2017 01:06 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000361 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000288 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000411 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Dibromomethane | U | | 0.000458 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000366 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000286 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000271 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000855 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000238 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000318 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000363 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| cis-1,2-Dichloroethene | U | | 0.000282 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000316 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000429 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000380 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000248 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000314 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000320 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000932 | 0.00300 | 1 | 09/07/2017 01:06 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000334 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Di-isopropyl ether | U | | 0.000297 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Ethylbenzene | U | | 0.000356 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000410 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 2-Hexanone | U | | 0.00164 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |
| n-Hexane | 0.00261 | J | 0.000348 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00303 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Isopropylbenzene | U | | 0.000291 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000244 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 2-Butanone (MEK) | U | | 0.00561 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Methylene Chloride | U | | 0.00120 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00225 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Methyl tert-butyl ether | U | | 0.000254 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Naphthalene | U | | 0.00120 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| n-Propylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Styrene | U | | 0.000280 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000316 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000437 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000437 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Tetrachloroethene | U | | 0.000331 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Toluene | U | | 0.000520 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000465 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000343 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000332 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Trichloroethene | U | | 0.000334 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000458 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000888 | 0.00300 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000253 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000344 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000319 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Vinyl acetate | U | | 0.00286 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Vinyl chloride | U | | 0.000349 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Xylenes, Total | U | | 0.000837 | 0.00360 | 1 | 09/07/2017 01:06 | WG1017429 |
| *(S) Toluene-d8* | *97.7* | | | *80.0-120* | | *09/07/2017 01:06* | WG1017429 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/07/2017 01:06* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/07/2017 01:06* | WG1017429 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.4 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0363 | 0.107 | 1 | 09/10/2017 04:09 | WG1018662 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.7* | | | *77.0-120* | | *09/10/2017 04:09* | WG1018662 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0107 | 0.0535 | 1 | 09/07/2017 01:28 | WG1017429 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Benzene | U | | 0.000289 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Bromobenzene | U | | 0.000304 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Bromochloromethane | U | | 0.000418 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| Bromoform | U | | 0.000454 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Bromomethane | U | | 0.00143 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Carbon disulfide | 0.000537 | J | 0.000237 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Carbon tetrachloride | U | | 0.000351 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Chloroethane | U | | 0.00101 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| Chloroform | U | | 0.000245 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| Chloromethane | U | | 0.000402 | 0.00268 | 1 | 09/07/2017 01:28 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000367 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Dibromomethane | U | | 0.000409 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000764 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| cis-1,2-Dichloroethene | U | | 0.000252 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000283 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000833 | 0.00268 | 1 | 09/07/2017 01:28 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000299 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Di-isopropyl ether | U | | 0.000266 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000366 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |
| n-Hexane | 0.00340 | J | 0.000311 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 2-Butanone (MEK) | U | | 0.00501 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Methylene Chloride | U | | 0.00107 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Naphthalene | U | | 0.00107 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000283 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000391 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000391 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Tetrachloroethene | U | | 0.000296 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Toluene | U | | 0.000465 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000416 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000297 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Trichloroethene | U | | 0.000299 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000409 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000794 | 0.00268 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000307 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Vinyl chloride | U | | 0.000312 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Xylenes, Total | U | | 0.000747 | 0.00321 | 1 | 09/07/2017 01:28 | WG1017429 |
| *(S) Toluene-d8* | *99.7* | | | *80.0-120* | | *09/07/2017 01:28* | WG1017429 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/07/2017 01:28* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *09/07/2017 01:28* | WG1017429 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.8 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0108 | 0.0539 | 1 | 09/07/2017 01:49 | WG1017429 |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Benzene | U | | 0.000291 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Bromobenzene | U | | 0.000306 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Bromodichloromethane | U | | 0.000274 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Bromochloromethane | U | | 0.000420 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| Bromoform | U | | 0.000457 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Bromomethane | U | | 0.00144 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| n-Butylbenzene | U | | 0.000278 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| sec-Butylbenzene | U | | 0.000216 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| tert-Butylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Carbon disulfide | 0.000700 | J | 0.000238 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Carbon tetrachloride | U | | 0.000353 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Chlorobenzene | U | | 0.000228 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Chlorodibromomethane | U | | 0.000402 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Chloroethane | U | | 0.00102 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| Chloroform | U | | 0.000247 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| Chloromethane | U | | 0.000404 | 0.00269 | 1 | 09/07/2017 01:49 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000324 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000259 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000369 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Dibromomethane | U | | 0.000411 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000329 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000768 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000326 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| cis-1,2-Dichloroethene | U | | 0.000253 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000284 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000386 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000341 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000282 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000288 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000838 | 0.00269 | 1 | 09/07/2017 01:49 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000301 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Di-isopropyl ether | U | | 0.000267 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Ethylbenzene | U | | 0.000320 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000368 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |
| n-Hexane | 0.000460 | J | 0.000312 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Iodomethane | U | | 0.00273 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Isopropylbenzene | U | | 0.000262 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000220 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 2-Butanone (MEK) | U | | 0.00504 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Methylene Chloride | U | | 0.00108 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Naphthalene | U | | 0.00108 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| n-Propylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Styrene | U | | 0.000252 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000393 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000393 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Tetrachloroethene | 0.00134 | | 0.000297 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Toluene | U | | 0.000467 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000418 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000308 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Trichloroethene | U | | 0.000301 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000411 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000798 | 0.00269 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000309 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000287 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Vinyl acetate | U | | 0.00257 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Vinyl chloride | U | | 0.000313 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Xylenes, Total | U | | 0.000752 | 0.00323 | 1 | 09/07/2017 01:49 | WG1017429 |
| *(S) Toluene-d8* | *99.8* | | | *80.0-120* | | *09/07/2017 01:49* | WG1017429 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/07/2017 01:49* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *99.4* | | | *64.0-132* | | *09/07/2017 01:49* | WG1017429 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.2 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0269 | J | 0.0108 | 0.0542 | 1 | 09/07/2017 02:11 | WG1017429 |
| Acrylonitrile | U | | 0.00194 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Benzene | U | | 0.000293 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Bromobenzene | U | | 0.000308 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Bromodichloromethane | U | | 0.000276 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Bromochloromethane | U | | 0.000423 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| Bromoform | U | | 0.000460 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Bromomethane | U | | 0.00145 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| n-Butylbenzene | U | | 0.000280 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| sec-Butylbenzene | U | | 0.000218 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Carbon disulfide | 0.000272 | J | 0.000240 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Carbon tetrachloride | U | | 0.000356 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Chlorobenzene | U | | 0.000230 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Chlorodibromomethane | U | | 0.000405 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Chloroethane | U | | 0.00103 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| Chloroform | U | | 0.000248 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| Chloromethane | U | | 0.000407 | 0.00271 | 1 | 09/07/2017 02:11 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000327 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000260 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000372 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Dibromomethane | U | | 0.000414 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000259 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000245 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000773 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000287 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000329 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| cis-1,2-Dichloroethene | U | | 0.000255 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000286 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000388 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000344 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000284 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000844 | 0.00271 | 1 | 09/07/2017 02:11 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Di-isopropyl ether | U | | 0.000269 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Ethylbenzene | U | | 0.000322 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000371 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 2-Hexanone | U | | 0.00149 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |
| n-Hexane | 0.000659 | J | 0.000315 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Iodomethane | U | | 0.00274 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Isopropylbenzene | U | | 0.000264 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 2-Butanone (MEK) | 0.00569 | J | 0.00508 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Methylene Chloride | U | | 0.00108 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000230 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Naphthalene | U | | 0.00108 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Styrene | U | | 0.000254 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000286 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000396 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000396 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Tetrachloroethene | U | | 0.000299 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Toluene | U | | 0.000471 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000332 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000421 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000310 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000300 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Trichloroethene | U | | 0.000303 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000414 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000804 | 0.00271 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000229 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000311 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Vinyl acetate | U | | 0.00259 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Vinyl chloride | U | | 0.000316 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Xylenes, Total | U | | 0.000757 | 0.00325 | 1 | 09/07/2017 02:11 | WG1017429 |
| *(S) Toluene-d8* | *98.0* | | | *80.0-120* | | *09/07/2017 02:11* | WG1017429 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/07/2017 02:11* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/07/2017 02:11* | WG1017429 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.5 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0108 | 0.0540 | 1 | 09/07/2017 02:33 | WG1017429 |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Benzene | U | | 0.000292 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Bromobenzene | U | | 0.000307 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Bromochloromethane | U | | 0.000422 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| Bromoform | U | | 0.000458 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Bromomethane | U | | 0.00145 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| n-Butylbenzene | U | | 0.000279 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| sec-Butylbenzene | U | | 0.000217 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Carbon disulfide | 0.000310 | J | 0.000239 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Carbon tetrachloride | U | | 0.000355 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Chlorobenzene | U | | 0.000229 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Chlorodibromomethane | U | | 0.000403 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Chloroethane | U | | 0.00102 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| Chloroform | U | | 0.000248 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| Chloromethane | U | | 0.000405 | 0.00270 | 1 | 09/07/2017 02:33 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000325 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000259 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000371 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Dibromomethane | U | | 0.000413 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000258 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000244 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000771 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000215 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000286 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000328 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| cis-1,2-Dichloroethene | U | | 0.000254 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000285 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000387 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000343 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000283 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000289 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000841 | 0.00270 | 1 | 09/07/2017 02:33 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000302 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Di-isopropyl ether | U | | 0.000268 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Ethylbenzene | U | | 0.000321 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000370 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |
| n-Hexane | 0.000708 | J | 0.000313 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Iodomethane | U | | 0.00273 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Isopropylbenzene | U | | 0.000263 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 2-Butanone (MEK) | U | | 0.00506 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Methylene Chloride | U | | 0.00108 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00203 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000229 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Naphthalene | U | | 0.00108 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Styrene | U | | 0.000253 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000285 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000395 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000395 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Tetrachloroethene | U | | 0.000298 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Toluene | U | | 0.000469 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000419 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000309 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000299 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Trichloroethene | U | | 0.000302 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000413 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000801 | 0.00270 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000228 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000310 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Vinyl acetate | U | | 0.00258 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Vinyl chloride | U | | 0.000315 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Xylenes, Total | U | | 0.000754 | 0.00324 | 1 | 09/07/2017 02:33 | WG1017429 |
| *(S) Toluene-d8* | *98.7* | | | *80.0-120* | | *09/07/2017 02:33* | WG1017429 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/07/2017 02:33* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *99.4* | | | *64.0-132* | | *09/07/2017 02:33* | WG1017429 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.7 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0415 | 0.122 | 1 | 09/10/2017 04:32 | WG1018662 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.5* | | | *77.0-120* | | *09/10/2017 04:32* | WG1018662 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0122 | 0.0612 | 1 | 09/07/2017 02:55 | WG1017429 |
| Acrylonitrile | U | | 0.00219 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Benzene | U | | 0.000330 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Bromobenzene | U | | 0.000347 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Bromodichloromethane | U | | 0.000311 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Bromochloromethane | U | | 0.000477 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| Bromoform | U | | 0.000519 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Bromomethane | U | | 0.00164 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| n-Butylbenzene | U | | 0.000316 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| sec-Butylbenzene | U | | 0.000246 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| tert-Butylbenzene | U | | 0.000252 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Carbon disulfide | U | | 0.000270 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Carbon tetrachloride | U | | 0.000401 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Chlorobenzene | U | | 0.000259 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Chlorodibromomethane | U | | 0.000456 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Chloroethane | U | | 0.00116 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| Chloroform | U | | 0.000280 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| Chloromethane | U | | 0.000459 | 0.00306 | 1 | 09/07/2017 02:55 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000368 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000294 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00128 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000420 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Dibromomethane | U | | 0.000467 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000373 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000292 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000276 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000872 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000243 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000324 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000371 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| cis-1,2-Dichloroethene | U | | 0.000287 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000323 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000438 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000388 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000253 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000321 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000327 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000952 | 0.00306 | 1 | 09/07/2017 02:55 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000341 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Di-isopropyl ether | U | | 0.000303 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Ethylbenzene | U | | 0.000363 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000418 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 2-Hexanone | U | | 0.00168 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 |
| n-Hexane | U | | 0.000355 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00310 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Isopropylbenzene | U | | 0.000297 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000250 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 2-Butanone (MEK) | U | | 0.00573 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Methylene Chloride | U | | 0.00122 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00230 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Methyl tert-butyl ether | U | | 0.000259 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Naphthalene | U | | 0.00122 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| n-Propylbenzene | U | | 0.000252 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Styrene | U | | 0.000286 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000323 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000447 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000447 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Tetrachloroethene | U | | 0.000338 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Toluene | U | | 0.000531 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000374 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000475 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000350 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000339 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Trichloroethene | U | | 0.000341 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000467 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000907 | 0.00306 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000258 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000351 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000325 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Vinyl acetate | U | | 0.00292 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Vinyl chloride | U | | 0.000356 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Xylenes, Total | U | | 0.000854 | 0.00367 | 1 | 09/07/2017 02:55 | WG1017429 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/07/2017 02:55* | WG1017429 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/07/2017 02:55* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *64.0-132* | | *09/07/2017 02:55* | WG1017429 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.3 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0145 | J | 0.0120 | 0.0600 | 1 | 09/07/2017 17:50 | WG1017429 |
| Acrylonitrile | U | | 0.00215 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Benzene | U | | 0.000324 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Bromobenzene | U | | 0.000341 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Bromodichloromethane | U | | 0.000305 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Bromochloromethane | U | | 0.000468 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| Bromoform | U | | 0.000509 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Bromomethane | U | | 0.00161 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| n-Butylbenzene | U | | 0.000310 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| sec-Butylbenzene | U | | 0.000241 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| tert-Butylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Carbon disulfide | 0.000664 | J | 0.000265 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Carbon tetrachloride | U | | 0.000394 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Chlorobenzene | U | | 0.000254 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Chlorodibromomethane | U | | 0.000448 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Chloroethane | U | | 0.00114 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| Chloroform | U | | 0.000275 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| Chloromethane | U | | 0.000450 | 0.00300 | 1 | 09/07/2017 17:50 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000361 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000288 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000412 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Dibromomethane | U | | 0.000459 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000366 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000287 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000271 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000856 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000239 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000318 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000364 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| cis-1,2-Dichloroethene | U | | 0.000282 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000317 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000430 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000381 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000248 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000315 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000321 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U | | 0.000934 | 0.00300 | 1 | 09/07/2017 17:50 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000335 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Di-isopropyl ether | U | | 0.000298 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Ethylbenzene | U | | 0.000357 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000411 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 2-Hexanone | U | | 0.00164 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |
| n-Hexane | 0.00129 | J | 0.000348 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Iodomethane | U | | 0.00304 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Isopropylbenzene | U | | 0.000292 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000245 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 2-Butanone (MEK) | U | | 0.00562 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Methylene Chloride | U | | 0.00120 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00226 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000254 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Naphthalene | U | | 0.00120 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| n-Propylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Styrene | U | | 0.000281 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000317 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000438 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000438 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Tetrachloroethene | U | | 0.000331 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Toluene | U | | 0.000521 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000466 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000343 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000333 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Trichloroethene | U | | 0.000335 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000459 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000890 | 0.00300 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000253 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000345 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000319 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Vinyl acetate | U | | 0.00287 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Vinyl chloride | U | | 0.000349 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Xylenes, Total | U | | 0.000838 | 0.00360 | 1 | 09/07/2017 17:50 | WG1017429 |
| *(S) Toluene-d8* | *95.7* | | | *80.0-120* | | *09/07/2017 17:50* | WG1017429 |
| *(S) Dibromofluoromethane* | *113* | | | *74.0-131* | | *09/07/2017 17:50* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/07/2017 17:50* | WG1017429 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.8 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0386 | J | 0.0113 | 0.0563 | 1 | 09/07/2017 03:17 | WG1017429 |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Benzene | 0.0221 | | 0.000304 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Bromobenzene | U | | 0.000320 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Bromodichloromethane | U | | 0.000286 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Bromochloromethane | U | | 0.000439 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 |
| Bromoform | U | | 0.000477 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Bromomethane | U | | 0.00151 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 |
| n-Butylbenzene | 0.00318 | | 0.000290 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| sec-Butylbenzene | 0.000274 | J | 0.000226 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| tert-Butylbenzene | U | | 0.000232 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Carbon disulfide | 0.00288 | | 0.000249 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Carbon tetrachloride | U | | 0.000369 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Chlorobenzene | U | | 0.000239 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Chlorodibromomethane | U | | 0.000420 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Chloroethane | U | | 0.00107 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 |
| Chloroform | U | | 0.000258 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 |
| Chloromethane | U | | 0.000422 | 0.00281 | 1 | 09/07/2017 03:17 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000339 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000270 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000386 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Dibromomethane | U | | 0.000430 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000343 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000269 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000254 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000803 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000224 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000298 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,1-Dichloroethene | 0.000509 | J | 0.000341 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| cis-1,2-Dichloroethene | 0.182 | | 0.000265 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| trans-1,2-Dichloroethene | 0.00356 | | 0.000297 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000403 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000357 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000233 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000295 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000301 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000876 | 0.00281 | 1 | 09/07/2017 03:17 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000314 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Di-isopropyl ether | U | | 0.000279 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Ethylbenzene | 0.00876 | | 0.000334 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000385 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 2-Hexanone | 0.00727 | J | 0.00154 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 |
| n-Hexane | 0.0368 | | 0.000327 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Iodomethane | U | | 0.00285 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Isopropylbenzene | 0.000650 | J | 0.000274 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000230 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 2-Butanone (MEK) | 0.0293 | | 0.00527 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Methylene Chloride | U | | 0.00113 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00212 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000239 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Naphthalene | 0.00226 | J | 0.00113 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 |
| n-Propylbenzene | 0.00407 | | 0.000232 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Styrene | 0.000676 | J | 0.000263 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000297 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000411 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000411 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Tetrachloroethene | 0.0139 | | 0.000311 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Toluene | 0.0228 | | 0.000489 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000437 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000322 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000312 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Trichloroethene | 0.00182 | | 0.000314 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000430 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000834 | 0.00281 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2,4-Trimethylbenzene | 0.00330 | | 0.000238 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2,3-Trimethylbenzene | 0.00117 | | 0.000323 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,3,5-Trimethylbenzene | 0.000732 | J | 0.000299 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Vinyl acetate | U | | 0.00269 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Vinyl chloride | 0.00113 | | 0.000328 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Xylenes, Total | 0.0189 | | 0.000786 | 0.00338 | 1 | 09/07/2017 03:17 | WG1017429 |
| *(S) Toluene-d8* | *92.5* | | | *80.0-120* | | *09/07/2017 03:17* | WG1017429 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/07/2017 03:17* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *99.7* | | | *64.0-132* | | *09/07/2017 03:17* | WG1017429 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.9 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0220 | J | 0.0121 | 0.0603 | 1 | 09/07/2017 03:39 | WG1017429 |
| Acrylonitrile | U | | 0.00216 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Benzene | 0.000541 | J | 0.000326 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Bromobenzene | U | | 0.000343 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Bromodichloromethane | U | | 0.000306 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Bromochloromethane | U | | 0.000470 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| Bromoform | U | | 0.000511 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Bromomethane | U | | 0.00162 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| n-Butylbenzene | U | | 0.000311 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| sec-Butylbenzene | U | | 0.000242 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| tert-Butylbenzene | U | | 0.000248 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Carbon disulfide | 0.00382 | | 0.000267 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Carbon tetrachloride | U | | 0.000396 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Chlorobenzene | U | | 0.000256 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Chlorodibromomethane | U | | 0.000450 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Chloroethane | U | | 0.00114 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| Chloroform | U | | 0.000276 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| Chloromethane | U | | 0.000452 | 0.00302 | 1 | 09/07/2017 03:39 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000363 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000289 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00127 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000414 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Dibromomethane | U | | 0.000461 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000368 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000288 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000273 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000860 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000240 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000320 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000365 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| cis-1,2-Dichloroethene | 0.000289 | J | 0.000283 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000318 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000432 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000382 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000250 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000316 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000322 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000938 | 0.00302 | 1 | 09/07/2017 03:39 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000336 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Di-isopropyl ether | U | | 0.000299 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Ethylbenzene | U | | 0.000358 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000412 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 2-Hexanone | U | | 0.00165 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |
| n-Hexane | 0.00652 | J | 0.000350 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Iodomethane | U | | 0.00305 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Isopropylbenzene | U | | 0.000293 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000246 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 2-Butanone (MEK) | 0.0107 | J | 0.00564 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Methylene Chloride | U | | 0.00121 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00227 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000256 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Naphthalene | U | | 0.00121 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| n-Propylbenzene | U | | 0.000248 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Styrene | U | | 0.000282 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000318 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000440 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000440 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Tetrachloroethene | U | | 0.000333 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Toluene | 0.000655 | J | 0.000523 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000369 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000468 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000345 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000334 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Trichloroethene | U | | 0.000336 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000461 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000894 | 0.00302 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000254 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000346 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000321 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Vinyl acetate | U | | 0.00288 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Vinyl chloride | U | | 0.000351 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Xylenes, Total | U | | 0.000842 | 0.00362 | 1 | 09/07/2017 03:39 | WG1017429 |
| *(S) Toluene-d8* | *98.7* | | | *80.0-120* | | *09/07/2017 03:39* | WG1017429 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/07/2017 03:39* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *09/07/2017 03:39* | WG1017429 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.0 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0114 | 0.0568 | 1 | 09/07/2017 00:42 | WG1017434 |
| Acrylonitrile | U | J0 | 0.00203 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Benzene | U | | 0.000307 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Bromobenzene | U | | 0.000323 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Bromodichloromethane | U | | 0.000289 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Bromochloromethane | U | | 0.000443 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| Bromoform | U | | 0.000482 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Bromomethane | U | | 0.00152 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| n-Butylbenzene | U | | 0.000293 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| sec-Butylbenzene | U | | 0.000228 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| tert-Butylbenzene | U | | 0.000234 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Carbon disulfide | U | | 0.000251 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Carbon tetrachloride | U | | 0.000373 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Chlorobenzene | U | | 0.000241 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Chlorodibromomethane | U | | 0.000424 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Chloroethane | U | | 0.00107 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| Chloroform | U | | 0.000260 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| Chloromethane | U | J0 | 0.000426 | 0.00284 | 1 | 09/07/2017 00:42 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000342 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000273 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000390 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Dibromomethane | U | | 0.000434 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000272 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Dichlorodifluoromethane | U | J0 | 0.000810 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000226 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000301 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000344 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000267 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000300 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000407 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000360 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000235 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000298 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000303 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000884 | 0.00284 | 1 | 09/07/2017 00:42 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000317 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Di-isopropyl ether | U | | 0.000282 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Ethylbenzene | U | | 0.000337 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000389 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 2-Hexanone | U | J0 | 0.00156 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |
| n-Hexane | 0.00113 | J J0 | 0.000329 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Iodomethane | U | | 0.00287 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Isopropylbenzene | U | | 0.000276 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 2-Butanone (MEK) | U | J0 | 0.00532 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Methylene Chloride | U | | 0.00114 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00214 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000241 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Naphthalene | U | | 0.00114 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| n-Propylbenzene | U | | 0.000234 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Styrene | U | | 0.000266 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000300 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000415 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000415 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Tetrachloroethene | U | | 0.000314 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Toluene | U | | 0.000493 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000441 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000325 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000315 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Trichloroethene | U | | 0.000317 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000434 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000842 | 0.00284 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000240 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000326 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000302 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Vinyl acetate | U | | 0.00272 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Vinyl chloride | U | | 0.000331 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Xylenes, Total | U | | 0.000793 | 0.00341 | 1 | 09/07/2017 00:42 | WG1017434 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/07/2017 00:42* | WG1017434 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *09/07/2017 00:42* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *09/07/2017 00:42* | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1.05 | 25.0 | 1 | 09/06/2017 14:03 | WG1017271 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/06/2017 14:03 | WG1017271 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/06/2017 14:03 | WG1017271 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Vinyl acetate | U | J0 | 0.645 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/06/2017 14:03* | WG1017271 |
| *(S) Dibromofluoromethane* | *105* | | | *76.0-123* | | *09/06/2017 14:03* | WG1017271 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *80.0-120* | | *09/06/2017 14:03* | WG1017271 |

## Method Blank (MB)

(MB) R3248045-1 09/08/17 15:56

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.000600 | | | |

## L933742-01 Original Sample (OS) • Duplicate (DUP)

(OS) L933742-01 09/08/17 15:56 • (DUP) R3248045-3 09/08/17 15:56

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 83.4 | 84.2 | 1 | 0.915 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3248045-2 09/08/17 15:56

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3248355-3 09/10/17 01:39

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.6* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248355-1 09/10/17 00:33 • (LCSD) R3248355-2 09/10/17 00:55

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | 5.75 | 5.70 | 105 | 104 | 70.0-133 | | | 0.960 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *105* | *104* | *77.0-120* | | | | |

## L934242-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L934242-27 09/10/17 10:18 • (MS) R3248355-4 09/10/17 10:40 • (MSD) R3248355-5 09/10/17 11:03

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 6.72 | U | 0.387 | 1.50 | 5.76 | 22.4 | 1 | 10.0-146 | J6 | J3 | 118 | 30 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *94.4* | *91.4* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3247243-2 09/06/17 13:43

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| Chloroform | U | | 0.0860 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |

## Method Blank (MB)

(MB) R3247243-2 09/06/17 13:43

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Ethylbenzene | U | | 0.158 | 0.500 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Toluene | U | | 0.412 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *105* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *103* | | | *80.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3247243-1 09/06/17 12:22

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 125 | 142 | 114 | 10.0-160 | |
| Acrylonitrile | 125 | 136 | 109 | 60.0-142 | |
| Bromobenzene | 25.0 | 25.1 | 100 | 79.0-120 | |
| Bromochloromethane | 25.0 | 26.8 | 107 | 76.0-122 | |
| n-Butylbenzene | 25.0 | 27.3 | 109 | 72.0-126 | |
| sec-Butylbenzene | 25.0 | 26.0 | 104 | 74.0-121 | |
| tert-Butylbenzene | 25.0 | 25.4 | 101 | 75.0-122 | |
| Carbon disulfide | 25.0 | 26.0 | 104 | 55.0-127 | |
| 2-Chlorotoluene | 25.0 | 25.7 | 103 | 74.0-122 | |
| 4-Chlorotoluene | 25.0 | 25.4 | 102 | 79.0-120 | |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 24.7 | 98.9 | 64.0-127 | |
| 1,2-Dibromoethane | 25.0 | 25.4 | 102 | 77.0-123 | |
| Dibromomethane | 25.0 | 26.1 | 105 | 78.0-120 | |
| cis-1,2-Dichloroethene | 25.0 | 25.7 | 103 | 73.0-120 | |
| 1,1-Dichloropropene | 25.0 | 26.7 | 107 | 71.0-129 | |
| 1,3-Dichloropropane | 25.0 | 25.4 | 101 | 80.0-121 | |
| Benzene | 25.0 | 26.1 | 105 | 69.0-123 | |
| trans-1,4-Dichloro-2-butene | 25.0 | 20.8 | 83.2 | 55.0-134 | |
| 2,2-Dichloropropane | 25.0 | 25.6 | 103 | 60.0-125 | |
| Bromodichloromethane | 25.0 | 26.0 | 104 | 76.0-120 | |
| Di-isopropyl ether | 25.0 | 26.5 | 106 | 59.0-133 | |
| Bromoform | 25.0 | 26.3 | 105 | 67.0-132 | |
| Hexachloro-1,3-butadiene | 25.0 | 26.6 | 106 | 64.0-131 | |
| 2-Hexanone | 125 | 138 | 111 | 58.0-147 | |
| Bromomethane | 25.0 | 25.4 | 102 | 18.0-160 | |
| n-Hexane | 25.0 | 27.2 | 109 | 56.0-124 | |
| Iodomethane | 125 | 131 | 105 | 57.0-140 | |
| Isopropylbenzene | 25.0 | 25.1 | 100 | 75.0-120 | |
| p-Isopropyltoluene | 25.0 | 26.7 | 107 | 74.0-126 | |
| 2-Butanone (MEK) | 125 | 116 | 92.9 | 37.0-158 | |
| Carbon tetrachloride | 25.0 | 25.1 | 101 | 63.0-122 | |
| 4-Methyl-2-pentanone (MIBK) | 125 | 133 | 106 | 59.0-143 | |
| Chlorobenzene | 25.0 | 24.4 | 97.7 | 79.0-121 | |
| Chlorodibromomethane | 25.0 | 25.6 | 102 | 75.0-125 | |
| Chloroethane | 25.0 | 26.3 | 105 | 47.0-152 | |
| n-Propylbenzene | 25.0 | 26.2 | 105 | 79.0-120 | |
| Chloroform | 25.0 | 26.5 | 106 | 72.0-121 | |
| Styrene | 25.0 | 26.8 | 107 | 78.0-124 | |
| 1,1,1,2-Tetrachloroethane | 25.0 | 24.3 | 97.1 | 75.0-122 | |
| Chloromethane | 25.0 | 23.0 | 92.1 | 48.0-139 | |

## Laboratory Control Sample (LCS)

(LCS) R3247243-1 09/06/17 12:22

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 26.5 | 106 | 61.0-136 | |
| 1,2,3-Trichlorobenzene | 25.0 | 26.0 | 104 | 61.0-133 | |
| 1,2,4-Trichlorobenzene | 25.0 | 25.7 | 103 | 69.0-129 | |
| 1,2-Dichlorobenzene | 25.0 | 25.6 | 102 | 80.0-120 | |
| 1,3-Dichlorobenzene | 25.0 | 25.4 | 101 | 72.0-123 | |
| 1,4-Dichlorobenzene | 25.0 | 24.9 | 99.4 | 77.0-120 | |
| Dichlorodifluoromethane | 25.0 | 23.1 | 92.2 | 49.0-155 | |
| 1,2,3-Trichloropropane | 25.0 | 26.2 | 105 | 72.0-124 | |
| 1,1-Dichloroethane | 25.0 | 27.3 | 109 | 70.0-126 | |
| 1,2,4-Trimethylbenzene | 25.0 | 26.1 | 104 | 75.0-120 | |
| 1,2,3-Trimethylbenzene | 25.0 | 23.9 | 95.7 | 75.0-120 | |
| 1,2-Dichloroethane | 25.0 | 28.4 | 114 | 67.0-126 | |
| 1,1-Dichloroethene | 25.0 | 26.3 | 105 | 64.0-129 | |
| 1,3,5-Trimethylbenzene | 25.0 | 25.7 | 103 | 75.0-120 | |
| Vinyl acetate | 125 | 172 | 138 | 46.0-160 | |
| trans-1,2-Dichloroethene | 25.0 | 26.2 | 105 | 71.0-121 | |
| 1,2-Dichloropropane | 25.0 | 27.1 | 109 | 75.0-125 | |
| cis-1,3-Dichloropropene | 25.0 | 28.3 | 113 | 79.0-123 | |
| trans-1,3-Dichloropropene | 25.0 | 28.1 | 113 | 74.0-127 | |
| Ethylbenzene | 25.0 | 24.0 | 96.0 | 77.0-120 | |
| Methylene Chloride | 25.0 | 26.1 | 104 | 66.0-121 | |
| Methyl tert-butyl ether | 25.0 | 25.8 | 103 | 64.0-123 | |
| Naphthalene | 25.0 | 23.9 | 95.8 | 62.0-128 | |
| 1,1,2,2-Tetrachloroethane | 25.0 | 27.3 | 109 | 71.0-122 | |
| Tetrachloroethene | 25.0 | 23.1 | 92.5 | 70.0-127 | |
| Toluene | 25.0 | 24.0 | 95.9 | 77.0-120 | |
| 1,1,1-Trichloroethane | 25.0 | 26.1 | 104 | 68.0-122 | |
| 1,1,2-Trichloroethane | 25.0 | 25.5 | 102 | 78.0-120 | |
| Trichloroethene | 25.0 | 24.5 | 98.2 | 78.0-120 | |
| Trichlorofluoromethane | 25.0 | 27.0 | 108 | 56.0-137 | |
| Vinyl chloride | 25.0 | 25.5 | 102 | 64.0-133 | |
| Xylenes, Total | 75.0 | 72.2 | 96.3 | 77.0-120 | |
| *(S) Toluene-d8* | | | *99.9* | *80.0-120* | |
| *(S) Dibromofluoromethane* | | | *107* | *76.0-123* | |
| *(S) 4-Bromofluorobenzene* | | | *103* | *80.0-120* | |

## Method Blank (MB)

(MB) R3247436-4 09/06/17 19:25

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3247436-4 09/06/17 19:25

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *96.7* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247436-1 09/06/17 17:57 • (LCSD) R3247436-2 09/06/17 18:19

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0693 | 0.0668 | 55.5 | 53.4 | 11.0-160 | | | 3.71 | 23 |
| Acrylonitrile | 0.125 | 0.142 | 0.138 | 113 | 111 | 61.0-143 | | | 2.61 | 20 |
| Benzene | 0.0250 | 0.0282 | 0.0268 | 113 | 107 | 71.0-124 | | | 5.12 | 20 |
| Bromobenzene | 0.0250 | 0.0248 | 0.0240 | 99.3 | 96.1 | 78.0-120 | | | 3.29 | 20 |
| Bromodichloromethane | 0.0250 | 0.0233 | 0.0228 | 93.3 | 91.2 | 75.0-120 | | | 2.30 | 20 |
| Bromoform | 0.0250 | 0.0241 | 0.0238 | 96.3 | 95.1 | 65.0-133 | | | 1.19 | 20 |
| Bromochloromethane | 0.0250 | 0.0264 | 0.0257 | 106 | 103 | 80.0-121 | | | 2.53 | 20 |
| Bromomethane | 0.0250 | 0.0223 | 0.0214 | 89.0 | 85.4 | 26.0-160 | | | 4.13 | 20 |
| n-Butylbenzene | 0.0250 | 0.0269 | 0.0257 | 108 | 103 | 73.0-126 | | | 4.30 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0286 | 0.0270 | 114 | 108 | 75.0-121 | | | 5.87 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0278 | 0.0264 | 111 | 105 | 74.0-122 | | | 5.34 | 20 |
| Carbon disulfide | 0.0250 | 0.0244 | 0.0235 | 97.7 | 94.0 | 53.0-130 | | | 3.92 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0234 | 0.0225 | 93.8 | 90.1 | 66.0-123 | | | 4.04 | 20 |
| Chlorobenzene | 0.0250 | 0.0282 | 0.0271 | 113 | 108 | 79.0-121 | | | 3.81 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0249 | 0.0241 | 99.5 | 96.5 | 74.0-128 | | | 3.13 | 20 |
| Chloroethane | 0.0250 | 0.0226 | 0.0213 | 90.5 | 85.1 | 51.0-147 | | | 6.17 | 20 |
| Chloroform | 0.0250 | 0.0259 | 0.0247 | 104 | 98.8 | 73.0-123 | | | 4.71 | 20 |
| Chloromethane | 0.0250 | 0.0271 | 0.0255 | 108 | 102 | 51.0-138 | | | 6.09 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0263 | 0.0249 | 105 | 99.7 | 72.0-124 | | | 5.38 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0260 | 0.0247 | 104 | 98.8 | 78.0-120 | | | 5.27 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0232 | 0.0240 | 92.9 | 96.1 | 65.0-126 | | | 3.37 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0265 | 0.0262 | 106 | 105 | 78.0-122 | | | 1.21 | 20 |
| Dibromomethane | 0.0250 | 0.0240 | 0.0237 | 96.2 | 94.7 | 79.0-120 | | | 1.55 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0270 | 0.0261 | 108 | 104 | 80.0-120 | | | 3.58 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0271 | 0.0263 | 108 | 105 | 72.0-123 | | | 3.18 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0253 | 0.0244 | 101 | 97.4 | 77.0-120 | | | 3.69 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0184 | 0.0175 | 73.5 | 70.2 | 49.0-155 | | | 4.62 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0193 | 0.0180 | 77.3 | 72.2 | 68.0-126 | | | 6.86 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0277 | 0.0264 | 111 | 106 | 70.0-128 | | | 4.58 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0205 | 0.0196 | 82.0 | 78.3 | 69.0-128 | | | 4.64 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0257 | 0.0241 | 103 | 96.4 | 63.0-131 | | | 6.49 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0269 | 0.0258 | 108 | 103 | 74.0-123 | | | 4.17 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0282 | 0.0270 | 113 | 108 | 72.0-122 | | | 4.37 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0287 | 0.0280 | 115 | 112 | 75.0-126 | | | 2.46 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0267 | 0.0250 | 107 | 99.9 | 72.0-130 | | | 6.65 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0266 | 0.0258 | 106 | 103 | 80.0-121 | | | 3.23 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0260 | 0.0248 | 104 | 99.4 | 80.0-125 | | | 4.71 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0240 | 0.0233 | 96.0 | 93.3 | 75.0-129 | | | 2.89 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0266 | 0.0248 | 106 | 99.3 | 60.0-129 | | | 6.95 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0300 | 0.0290 | 120 | 116 | 62.0-133 | | | 3.54 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3247436-1 09/06/17 17:57 • (LCSD) R3247436-2 09/06/17 18:19

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0292 | 0.0277 | 117 | 111 | 77.0-120 | | | 5.27 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0281 | 0.0264 | 112 | 106 | 68.0-128 | | | 6.12 | 20 |
| 2-Hexanone | 0.125 | 0.110 | 0.108 | 88.0 | 86.4 | 61.0-143 | | | 1.91 | 20 |
| Isopropylbenzene | 0.0250 | 0.0275 | 0.0262 | 110 | 105 | 75.0-120 | | | 4.82 | 20 |
| n-Hexane | 0.0250 | 0.0302 | 0.0283 | 121 | 113 | 57.0-125 | | | 6.43 | 20 |
| Iodomethane | 0.125 | 0.129 | 0.124 | 103 | 99.0 | 67.0-132 | | | 4.42 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0281 | 0.0264 | 112 | 106 | 74.0-125 | | | 6.00 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0947 | 0.0917 | 75.7 | 73.3 | 37.0-159 | | | 3.23 | 20 |
| Methylene Chloride | 0.0250 | 0.0266 | 0.0255 | 106 | 102 | 67.0-123 | | | 4.18 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.127 | 0.126 | 102 | 101 | 60.0-144 | | | 1.22 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0239 | 0.0231 | 95.7 | 92.3 | 66.0-125 | | | 3.65 | 20 |
| Naphthalene | 0.0250 | 0.0217 | 0.0230 | 86.7 | 91.8 | 64.0-125 | | | 5.77 | 20 |
| n-Propylbenzene | 0.0250 | 0.0279 | 0.0266 | 112 | 106 | 78.0-120 | | | 4.97 | 20 |
| Styrene | 0.0250 | 0.0293 | 0.0277 | 117 | 111 | 78.0-124 | | | 5.67 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0275 | 0.0261 | 110 | 104 | 74.0-124 | | | 5.20 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0269 | 0.0268 | 108 | 107 | 73.0-120 | | | 0.410 | 20 |
| Tetrachloroethene | 0.0250 | 0.0307 | 0.0292 | 123 | 117 | 70.0-127 | | | 5.17 | 20 |
| Toluene | 0.0250 | 0.0285 | 0.0273 | 114 | 109 | 77.0-120 | | | 4.34 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0256 | 0.0242 | 102 | 96.7 | 64.0-135 | | | 5.65 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0224 | 0.0237 | 89.7 | 94.8 | 68.0-126 | | | 5.46 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0245 | 0.0238 | 97.9 | 95.1 | 70.0-127 | | | 2.89 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0262 | 0.0251 | 105 | 101 | 69.0-125 | | | 4.01 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0265 | 0.0259 | 106 | 104 | 78.0-120 | | | 2.18 | 20 |
| Trichloroethene | 0.0250 | 0.0268 | 0.0260 | 107 | 104 | 79.0-120 | | | 2.90 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0219 | 0.0213 | 87.5 | 85.3 | 59.0-136 | | | 2.50 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0232 | 0.0229 | 92.7 | 91.7 | 73.0-124 | | | 1.18 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0242 | 0.0233 | 97.0 | 93.1 | 76.0-120 | | | 4.06 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0259 | 0.0246 | 104 | 98.3 | 75.0-120 | | | 5.38 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0269 | 0.0256 | 108 | 102 | 75.0-120 | | | 5.09 | 20 |
| Vinyl chloride | 0.0250 | 0.0251 | 0.0237 | 100 | 94.9 | 63.0-134 | | | 5.40 | 20 |
| Xylenes, Total | 0.0750 | 0.0888 | 0.0841 | 118 | 112 | 77.0-120 | | | 5.44 | 20 |
| Vinyl acetate | 0.125 | 0.139 | 0.133 | 111 | 106 | 58.0-156 | | | 4.29 | 20 |
| *(S) Toluene-d8* | | | | *107* | *107* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *95.3* | *95.3* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *98.1* | *98.6* | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3248365-3 09/06/17 23:06

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3248365-3 09/06/17 23:06

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *118* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248365-1 09/06/17 22:07 • (LCSD) R3248365-2 09/06/17 22:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0690 | 0.0523 | 55.2 | 41.8 | 11.0-160 | | J3 | 27.6 | 23 |
| Benzene | 0.0250 | 0.0229 | 0.0231 | 91.4 | 92.2 | 71.0-124 | | | 0.890 | 20 |
| Acrylonitrile | 0.125 | 0.0940 | 0.0855 | 75.2 | 68.4 | 61.0-143 | | | 9.42 | 20 |
| Bromodichloromethane | 0.0250 | 0.0255 | 0.0251 | 102 | 100 | 75.0-120 | | | 1.43 | 20 |
| Bromobenzene | 0.0250 | 0.0241 | 0.0246 | 96.6 | 98.6 | 78.0-120 | | | 2.06 | 20 |
| Bromoform | 0.0250 | 0.0258 | 0.0250 | 103 | 100 | 65.0-133 | | | 3.29 | 20 |
| Bromochloromethane | 0.0250 | 0.0260 | 0.0251 | 104 | 101 | 80.0-121 | | | 3.51 | 20 |
| Bromomethane | 0.0250 | 0.0202 | 0.0202 | 80.8 | 80.6 | 26.0-160 | | | 0.170 | 20 |
| n-Butylbenzene | 0.0250 | 0.0240 | 0.0247 | 95.9 | 98.7 | 73.0-126 | | | 2.84 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0253 | 0.0256 | 101 | 102 | 75.0-121 | | | 1.10 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0213 | 0.0213 | 85.3 | 85.2 | 66.0-123 | | | 0.100 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0244 | 0.0248 | 97.6 | 99.3 | 74.0-122 | | | 1.77 | 20 |
| Carbon disulfide | 0.0250 | 0.0230 | 0.0230 | 92.0 | 92.0 | 53.0-130 | | | 0.0700 | 20 |
| Chlorobenzene | 0.0250 | 0.0258 | 0.0266 | 103 | 106 | 79.0-121 | | | 3.06 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0255 | 0.0253 | 102 | 101 | 74.0-128 | | | 0.550 | 20 |
| Chloroethane | 0.0250 | 0.0214 | 0.0211 | 85.7 | 84.2 | 51.0-147 | | | 1.73 | 20 |
| Chloroform | 0.0250 | 0.0237 | 0.0237 | 95.0 | 94.7 | 73.0-123 | | | 0.260 | 20 |
| Chloromethane | 0.0250 | 0.0171 | 0.0171 | 68.3 | 68.6 | 51.0-138 | | | 0.390 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0247 | 0.0252 | 99.0 | 101 | 72.0-124 | | | 1.75 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0240 | 0.0246 | 96.2 | 98.4 | 78.0-120 | | | 2.31 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0237 | 0.0221 | 94.8 | 88.5 | 65.0-126 | | | 6.93 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0279 | 0.0269 | 112 | 108 | 78.0-122 | | | 3.79 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0243 | 0.0244 | 97.3 | 97.6 | 80.0-120 | | | 0.340 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0242 | 0.0246 | 97.0 | 98.4 | 72.0-123 | | | 1.45 | 20 |
| Dibromomethane | 0.0250 | 0.0227 | 0.0219 | 91.0 | 87.4 | 79.0-120 | | | 3.96 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0242 | 0.0246 | 96.6 | 98.2 | 77.0-120 | | | 1.65 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0170 | 0.0164 | 67.8 | 65.6 | 49.0-155 | | | 3.33 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0235 | 0.0211 | 93.9 | 84.5 | 68.0-126 | | | 10.6 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0235 | 0.0238 | 94.2 | 95.4 | 70.0-128 | | | 1.24 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0248 | 0.0240 | 99.3 | 96.0 | 69.0-128 | | | 3.43 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0229 | 0.0230 | 91.7 | 92.2 | 63.0-131 | | | 0.530 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0238 | 0.0238 | 95.2 | 95.3 | 74.0-123 | | | 0.100 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0245 | 0.0243 | 97.9 | 97.4 | 72.0-122 | | | 0.560 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0239 | 0.0234 | 95.8 | 93.5 | 75.0-126 | | | 2.38 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0233 | 0.0232 | 93.1 | 92.9 | 72.0-130 | | | 0.230 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0287 | 0.0291 | 115 | 116 | 80.0-125 | | | 1.24 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0258 | 0.0251 | 103 | 100 | 80.0-121 | | | 2.52 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0276 | 0.0277 | 110 | 111 | 75.0-129 | | | 0.390 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0195 | 0.0196 | 77.8 | 78.4 | 60.0-129 | | | 0.680 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0204 | 0.0197 | 81.7 | 79.0 | 62.0-133 | | | 3.34 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248365-1 09/06/17 22:07 • (LCSD) R3248365-2 09/06/17 22:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0255 | 0.0261 | 102 | 104 | 77.0-120 | | | 2.31 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0266 | 0.0274 | 106 | 110 | 68.0-128 | | | 2.96 | 20 |
| 2-Hexanone | 0.125 | 0.0993 | 0.0880 | 79.4 | 70.4 | 61.0-143 | | | 12.1 | 20 |
| n-Hexane | 0.0250 | 0.0199 | 0.0196 | 79.6 | 78.6 | 57.0-125 | | | 1.35 | 20 |
| Iodomethane | 0.125 | 0.123 | 0.121 | 98.6 | 97.1 | 67.0-132 | | | 1.52 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0805 | 0.0677 | 64.4 | 54.2 | 37.0-159 | | | 17.2 | 20 |
| Isopropylbenzene | 0.0250 | 0.0243 | 0.0248 | 97.4 | 99.0 | 75.0-120 | | | 1.66 | 20 |
| Methylene Chloride | 0.0250 | 0.0224 | 0.0221 | 89.4 | 88.6 | 67.0-123 | | | 0.920 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0262 | 0.0265 | 105 | 106 | 74.0-125 | | | 1.33 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.104 | 0.0951 | 82.9 | 76.1 | 60.0-144 | | | 8.56 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0207 | 0.0194 | 82.7 | 77.7 | 66.0-125 | | | 6.34 | 20 |
| Naphthalene | 0.0250 | 0.0251 | 0.0244 | 101 | 97.4 | 64.0-125 | | | 3.16 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0238 | 0.0220 | 95.4 | 88.0 | 73.0-120 | | | 8.06 | 20 |
| n-Propylbenzene | 0.0250 | 0.0250 | 0.0252 | 100 | 101 | 78.0-120 | | | 0.900 | 20 |
| Tetrachloroethene | 0.0250 | 0.0282 | 0.0291 | 113 | 116 | 70.0-127 | | | 3.05 | 20 |
| Styrene | 0.0250 | 0.0274 | 0.0277 | 110 | 111 | 78.0-124 | | | 1.12 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0234 | 0.0235 | 93.7 | 93.9 | 74.0-124 | | | 0.250 | 20 |
| Toluene | 0.0250 | 0.0248 | 0.0255 | 99.2 | 102 | 77.0-120 | | | 2.67 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0225 | 0.0223 | 90.2 | 89.4 | 69.0-125 | | | 0.900 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0253 | 0.0253 | 101 | 101 | 78.0-120 | | | 0.000 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0211 | 0.0211 | 84.5 | 84.2 | 64.0-135 | | | 0.350 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0266 | 0.0265 | 106 | 106 | 68.0-126 | | | 0.240 | 20 |
| Trichloroethene | 0.0250 | 0.0240 | 0.0240 | 96.0 | 95.9 | 79.0-120 | | | 0.130 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0241 | 0.0251 | 96.5 | 101 | 70.0-127 | | | 4.18 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0221 | 0.0217 | 88.6 | 86.7 | 59.0-136 | | | 2.17 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0237 | 0.0222 | 94.8 | 88.9 | 73.0-124 | | | 6.37 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0226 | 0.0227 | 90.3 | 90.8 | 76.0-120 | | | 0.580 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0242 | 0.0242 | 96.7 | 96.7 | 75.0-120 | | | 0.0200 | 20 |
| Vinyl chloride | 0.0250 | 0.0204 | 0.0206 | 81.5 | 82.4 | 63.0-134 | | | 1.07 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0250 | 0.0254 | 100 | 102 | 75.0-120 | | | 1.61 | 20 |
| Xylenes, Total | 0.0750 | 0.0764 | 0.0774 | 102 | 103 | 77.0-120 | | | 1.30 | 20 |
| Vinyl acetate | 0.125 | 0.119 | 0.112 | 95.5 | 89.2 | 58.0-156 | | | 6.79 | 20 |
| *(S) Toluene-d8* | | | | *113* | *115* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *102* | *103* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *104* | *104* | *64.0-132* | | | | |

## L934152-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L934152-01 09/07/17 06:38 • (MS) R3248365-4 09/07/17 07:48 • (MSD) R3248365-5 09/07/17 08:08

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.154 | ND | 0.574 | 0.697 | 14.9 | 18.1 | 25 | 10.0-160 | | | 19.3 | 36 |
| Benzene | 0.0308 | ND | 0.271 | 0.329 | 35.2 | 42.7 | 25 | 13.0-146 | | | 19.3 | 27 |
| Bromodichloromethane | 0.0308 | ND | 0.280 | 0.330 | 36.3 | 42.9 | 25 | 15.0-142 | | | 16.5 | 28 |
| Acrylonitrile | 0.154 | ND | 1.08 | 1.36 | 27.9 | 35.3 | 25 | 14.0-160 | | | 23.2 | 33 |
| Bromoform | 0.0308 | ND | 0.271 | 0.319 | 35.2 | 41.4 | 25 | 10.0-147 | | | 16.2 | 31 |
| Bromobenzene | 0.0308 | ND | 0.277 | 0.331 | 36.0 | 43.0 | 25 | 10.0-149 | | | 17.7 | 33 |
| Bromomethane | 0.0308 | ND | 0.118 | 0.138 | 15.4 | 17.9 | 25 | 10.0-160 | | | 15.3 | 32 |
| Bromochloromethane | 0.0308 | ND | 0.299 | 0.368 | 38.8 | 47.7 | 25 | 24.0-146 | | | 20.8 | 27 |
| Carbon tetrachloride | 0.0308 | ND | 0.246 | 0.305 | 31.9 | 39.6 | 25 | 13.0-140 | | | 21.4 | 30 |
| n-Butylbenzene | 0.0308 | ND | 0.292 | 0.358 | 37.9 | 46.5 | 25 | 10.0-154 | | | 20.2 | 37 |
| Chlorobenzene | 0.0308 | ND | 0.296 | 0.350 | 38.5 | 45.4 | 25 | 10.0-149 | | | 16.5 | 31 |
| sec-Butylbenzene | 0.0308 | ND | 0.294 | 0.359 | 38.1 | 46.6 | 25 | 10.0-151 | | | 19.9 | 36 |
| Chlorodibromomethane | 0.0308 | ND | 0.271 | 0.331 | 35.2 | 42.9 | 25 | 12.0-147 | | | 19.8 | 29 |
| tert-Butylbenzene | 0.0308 | ND | 0.278 | 0.342 | 36.0 | 44.4 | 25 | 10.0-152 | | | 20.7 | 35 |
| Carbon disulfide | 0.0308 | ND | 0.267 | 0.331 | 34.7 | 43.0 | 25 | 10.0-141 | | | 21.2 | 30 |
| Chloroethane | 0.0308 | ND | 0.0578 | 0.0678 | 7.50 | 8.80 | 25 | 10.0-159 | J6 | J6 | 15.9 | 33 |
| Chloroform | 0.0308 | ND | 0.279 | 0.349 | 36.2 | 45.3 | 25 | 18.0-148 | | | 22.4 | 28 |
| Chloromethane | 0.0308 | ND | 0.225 | 0.272 | 29.2 | 35.3 | 25 | 10.0-146 | | | 18.8 | 29 |
| 2-Chlorotoluene | 0.0308 | ND | 0.287 | 0.345 | 37.3 | 44.8 | 25 | 10.0-151 | | | 18.3 | 35 |
| 1,2-Dichlorobenzene | 0.0308 | ND | 0.284 | 0.345 | 36.9 | 44.8 | 25 | 10.0-153 | | | 19.3 | 34 |
| 4-Chlorotoluene | 0.0308 | ND | 0.277 | 0.333 | 35.9 | 43.2 | 25 | 10.0-150 | | | 18.5 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0308 | ND | 0.258 | 0.325 | 33.5 | 42.2 | 25 | 10.0-149 | | | 22.9 | 34 |
| 1,3-Dichlorobenzene | 0.0308 | ND | 0.276 | 0.334 | 35.8 | 43.4 | 25 | 10.0-150 | | | 19.3 | 35 |
| 1,2-Dibromoethane | 0.0308 | ND | 0.302 | 0.349 | 39.1 | 45.4 | 25 | 14.0-145 | | | 14.7 | 28 |
| 1,4-Dichlorobenzene | 0.0308 | ND | 0.277 | 0.337 | 35.9 | 43.7 | 25 | 10.0-148 | | | 19.6 | 34 |
| Dibromomethane | 0.0308 | ND | 0.254 | 0.306 | 33.0 | 39.8 | 25 | 18.0-144 | | | 18.6 | 27 |
| Dichlorodifluoromethane | 0.0308 | ND | 0.252 | 0.286 | 32.7 | 37.2 | 25 | 10.0-160 | | | 12.8 | 30 |
| 1,1-Dichloroethane | 0.0308 | ND | 0.281 | 0.347 | 36.4 | 45.0 | 25 | 19.0-148 | | | 20.9 | 28 |
| 1,2-Dichloroethane | 0.0308 | ND | 0.288 | 0.347 | 37.4 | 45.1 | 25 | 17.0-147 | | | 18.6 | 27 |
| trans-1,4-Dichloro-2-butene | 0.0308 | ND | 0.234 | 0.267 | 30.4 | 34.7 | 25 | 10.0-160 | | | 13.3 | 40 |
| 1,1-Dichloroethene | 0.0308 | ND | 0.302 | 0.378 | 39.2 | 49.0 | 25 | 10.0-150 | | | 22.2 | 31 |
| cis-1,2-Dichloroethene | 0.0308 | ND | 0.276 | 0.350 | 35.8 | 45.4 | 25 | 16.0-145 | | | 23.6 | 28 |
| trans-1,2-Dichloroethene | 0.0308 | ND | 0.276 | 0.355 | 35.8 | 46.1 | 25 | 11.0-142 | | | 25.2 | 29 |
| 1,2-Dichloropropane | 0.0308 | ND | 0.274 | 0.315 | 35.5 | 40.9 | 25 | 17.0-148 | | | 14.0 | 28 |
| cis-1,3-Dichloropropene | 0.0308 | ND | 0.311 | 0.370 | 40.4 | 48.0 | 25 | 13.0-150 | | | 17.1 | 28 |
| trans-1,3-Dichloropropene | 0.0308 | ND | 0.299 | 0.347 | 38.8 | 45.0 | 25 | 10.0-152 | | | 14.9 | 29 |
| 1,1-Dichloropropene | 0.0308 | ND | 0.264 | 0.335 | 34.3 | 43.5 | 25 | 10.0-150 | | | 23.7 | 30 |
| 1,3-Dichloropropane | 0.0308 | ND | 0.289 | 0.329 | 37.6 | 42.7 | 25 | 16.0-148 | | | 12.8 | 27 |
| Di-isopropyl ether | 0.0308 | ND | 0.243 | 0.300 | 31.5 | 39.0 | 25 | 16.0-149 | | | 21.1 | 28 |

## L934152-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L934152-01 09/07/17 06:38 • (MS) R3248365-4 09/07/17 07:48 • (MSD) R3248365-5 09/07/17 08:08

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0308 | ND | 0.293 | 0.353 | 38.0 | 45.8 | 25 | 10.0-147 | | | 18.6 | 31 |
| 2,2-Dichloropropane | 0.0308 | ND | 0.235 | 0.287 | 30.5 | 37.2 | 25 | 16.0-143 | | | 19.7 | 30 |
| Hexachloro-1,3-butadiene | 0.0308 | ND | 0.341 | 0.411 | 44.2 | 53.3 | 25 | 10.0-154 | | | 18.6 | 40 |
| 2-Hexanone | 0.154 | ND | 0.940 | 1.11 | 24.4 | 28.8 | 25 | 12.0-158 | | | 16.5 | 30 |
| 2-Butanone (MEK) | 0.154 | ND | 0.773 | 0.975 | 20.1 | 25.3 | 25 | 10.0-160 | | | 23.0 | 33 |
| n-Hexane | 0.0308 | ND | 0.218 | 0.267 | 28.3 | 34.7 | 25 | 10.0-140 | | | 20.2 | 34 |
| Iodomethane | 0.154 | ND | 1.52 | 1.88 | 39.5 | 48.9 | 25 | 10.0-157 | | | 21.1 | 34 |
| Methylene Chloride | 0.0308 | ND | 0.272 | 0.330 | 35.4 | 42.9 | 25 | 16.0-139 | | | 19.2 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.154 | ND | 1.05 | 1.27 | 27.3 | 33.1 | 25 | 12.0-160 | | | 19.1 | 32 |
| Isopropylbenzene | 0.0308 | ND | 0.277 | 0.340 | 36.0 | 44.1 | 25 | 10.0-147 | | | 20.4 | 33 |
| Methyl tert-butyl ether | 0.0308 | ND | 0.240 | 0.300 | 31.1 | 39.0 | 25 | 21.0-145 | | | 22.4 | 29 |
| p-Isopropyltoluene | 0.0308 | ND | 0.308 | 0.376 | 40.0 | 48.8 | 25 | 10.0-156 | | | 19.9 | 37 |
| 1,1,2,2-Tetrachloroethane | 0.0308 | ND | 0.258 | 0.319 | 33.4 | 41.4 | 25 | 10.0-155 | | | 21.3 | 31 |
| Naphthalene | 0.0308 | ND | 0.306 | 0.376 | 39.7 | 48.8 | 25 | 10.0-153 | | | 20.6 | 36 |
| Tetrachloroethene | 0.0308 | ND | 0.314 | 0.366 | 39.6 | 46.3 | 25 | 10.0-144 | | | 15.1 | 32 |
| n-Propylbenzene | 0.0308 | ND | 0.286 | 0.351 | 37.1 | 45.5 | 25 | 10.0-151 | | | 20.4 | 34 |
| Toluene | 0.0308 | ND | 0.296 | 0.347 | 35.3 | 41.9 | 25 | 10.0-144 | | | 15.9 | 28 |
| Styrene | 0.0308 | ND | 0.310 | 0.375 | 40.3 | 48.7 | 25 | 10.0-155 | | | 19.0 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0308 | ND | 0.268 | 0.323 | 34.8 | 41.9 | 25 | 10.0-147 | | | 18.3 | 30 |
| 1,1,1-Trichloroethane | 0.0308 | ND | 0.262 | 0.331 | 34.0 | 42.9 | 25 | 18.0-145 | | | 23.2 | 29 |
| 1,1,2-Trichloroethane | 0.0308 | ND | 0.273 | 0.328 | 35.4 | 42.6 | 25 | 12.0-151 | | | 18.5 | 28 |
| Trichloroethene | 0.0308 | ND | 0.268 | 0.322 | 34.8 | 41.7 | 25 | 11.0-148 | | | 18.2 | 29 |
| 1,1,2-Trichlorotrifluoroethane | 0.0308 | ND | 0.285 | 0.346 | 36.9 | 44.9 | 25 | 10.0-153 | | | 19.4 | 33 |
| Trichlorofluoromethane | 0.0308 | ND | 0.175 | 0.186 | 22.8 | 24.1 | 25 | 10.0-157 | | | 5.66 | 34 |
| 1,2,3-Trichlorobenzene | 0.0308 | ND | 0.332 | 0.408 | 43.1 | 52.9 | 25 | 10.0-153 | | | 20.4 | 40 |
| 1,2,4-Trichlorobenzene | 0.0308 | ND | 0.310 | 0.380 | 40.2 | 49.4 | 25 | 10.0-156 | | | 20.5 | 40 |
| 1,2,3-Trichloropropane | 0.0308 | ND | 0.255 | 0.314 | 33.1 | 40.8 | 25 | 10.0-154 | | | 20.7 | 32 |
| Vinyl chloride | 0.0308 | ND | 0.250 | 0.308 | 32.4 | 40.0 | 25 | 10.0-150 | | | 20.9 | 29 |
| 1,2,3-Trimethylbenzene | 0.0308 | ND | 0.283 | 0.342 | 34.8 | 42.5 | 25 | 10.0-150 | | | 18.9 | 33 |
| Xylenes, Total | 0.0925 | ND | 0.939 | 1.09 | 38.0 | 44.7 | 25 | 10.0-150 | | | 15.2 | 31 |
| 1,2,4-Trimethylbenzene | 0.0308 | 0.0426 | 0.331 | 0.391 | 37.4 | 45.3 | 25 | 10.0-151 | | | 16.8 | 34 |
| 1,3,5-Trimethylbenzene | 0.0308 | ND | 0.303 | 0.360 | 37.9 | 45.3 | 25 | 10.0-150 | | | 17.2 | 33 |
| Vinyl acetate | 0.154 | ND | 1.26 | 1.54 | 32.7 | 40.0 | 25 | 10.0-160 | | | 20.1 | 40 |
| *(S) Toluene-d8* | | | | | *115* | *111* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *104* | *110* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *106* | *107* | | *64.0-132* | | | | |

**Sample Narrative:**

OS: Stir bars received improperly prepped.

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

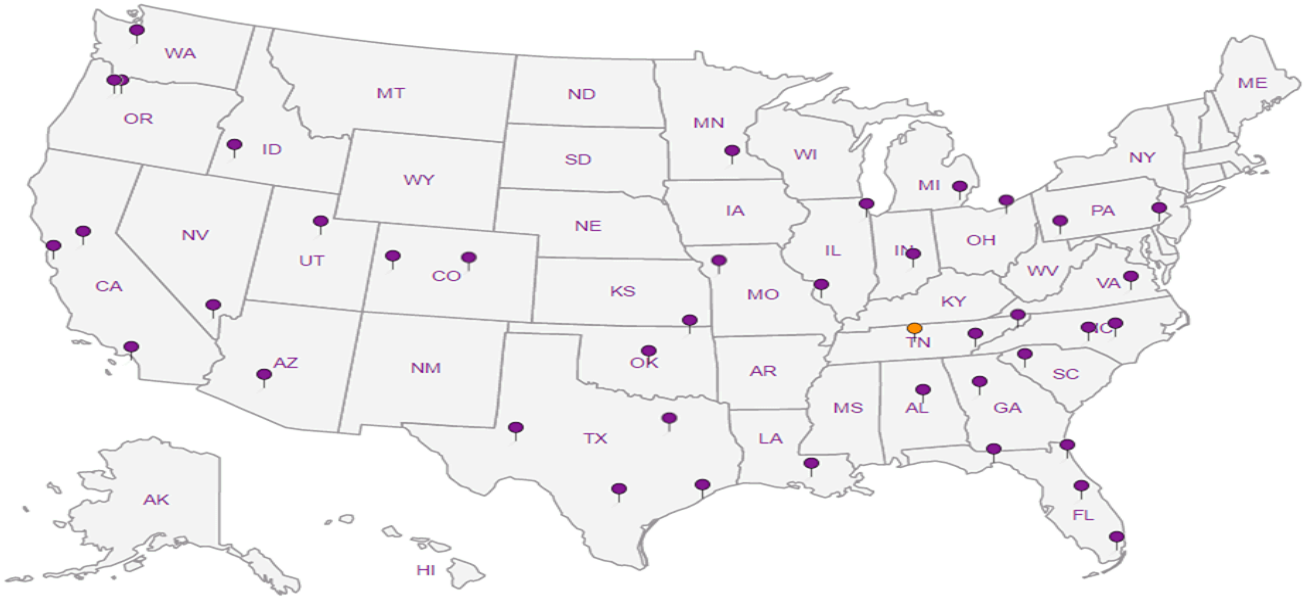
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413 001 02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Chain of Custody Page 1 of 2

ESC LABORATORIES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 933742

C004

Acctnum: PESENVSWA
Template: T126584
Prelogin: P613271
TSR: 110 - Brian Ford
PB:

Shipped Via: FedEX Ground

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B MW-137-85 | GRAB | SS GW | 85 | 09/01/17 | 0820 | 5 3 | X | | X | X | 5 | | -01 |
| B MW-137-95 | | SS | 95 | | 0900 | 5 4 | X | | X | X | | | -02 |
| B- 216-20 | | SS | 20 | | 0915 | 4 | | | X | X | | | -03 |
| B- 216-13 | | SS | 13 | | 0930 | 4 | | | X | X | | HOLD | |
| B- 216-40 | | SS | 40 | | 1010 | 4 | | | X | X | | | -04 |
| B MW-147-107-W | | GW SS | 107 | | 1130 | 6 4 | | X | 5 | 5 | X | HOLD | |
| B B-216-50 | | SS | 50 | | 1035 | 4 | | | X | X | | | -05 |
| B MW-137-115 | | SS GW | 115 | | 1145 | 5 3 | X | | | | 5 | | -06 |
| B- 216-65 | | SS GW | 65 | | 1145 | 4 3 | | | | | 5 | | -07 |
| B- 216-55 | | SS | 55 | | 1215 | 4 | | | X | X | | | -08 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7474 0921 0366

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 9/1/17 | 1500 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |

Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: 2.0 °C msv 50 Bottles Received: 52

Date: 9/2/17 Time: 0845

If preservation required by Login: Date/Time

8-218

Condition: NCF / OK

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B- 216-85 | GRAB | SS | 85 | 9/1/17 | 1300 | 4 5 | ~~X~~ | | X | X | | | -09 |
| B- 216-95 | ↓ | SS | 95 | ↓ | 1330 | ~~4~~ 5 | ~~X~~ | | X | X | | | -10 |
| ~~B~~ TRIP BLANK-090117 | NA | ~~NA~~ SS | NA | | NA | ~~1~~ 5 | ~~X~~ | | ~~X~~ | ~~X~~ | X | | -11 |
| B- | | SS | | | | 5 | X | | X | X | | | |
| B- | | SS | | | | 5 | X | | X | X | | | |
| B- | | GW | | | | 6 | | X | | | X | | |
| B- | | GW | | | | 6 | | X | | | X | | |
| B- | | SS | | | | 5 | X | | X | X | | | |
| B- | | SS | | | | 5 | X | | X | X | | | |
| B- | | SS | | | | 5 | X | | X | X | | | |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7474 0921 0364

Relinquished by : (Signature) — Date: 9/1/17 — Time: 1500 — Received by: (Signature)

Relinquished by : (Signature) — Date: — Time: — Received by: (Signature)

Relinquished by : (Signature) — Date: — Time: — Received for lab by: (Signature) — Date: 9/2/17 — Time: 0845

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 2.0 °C corr 3.0 — Bottles Received: 52

Hold: — Condition: NCF / OK

If preservation required by Login: Date/Time

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Chain of Custody Page 2 of 2

ESC LABORATORY SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: PESENVSWA
Template: T126584
Prelogin: P613271
TSR: 110 - Brian Ford
PB:

Shipped Via: FedEX Ground

**Andy Vann**

# ESC Lab Sciences
# Non-Conformance Form

| Login #:L933742 | Client: PESENVSWA | Date:09/01/17 | Evaluated by: Myra "Katie" Ingram |
|---|---|---|---|

**Non-Conformance (check applicable items)**

| | Sample Integrity | | Chain of Custody Clarification | | |
|---|---|---|---|---|---|
| | Parameter(s) past holding time | | Login Clarification Needed | | **If Broken Container:** |
| | Improper temperature | | Chain of custody is incomplete | | Insufficient packing material around container |
| | Improper container type | | Please specify Metals requested. | | Insufficient packing material inside cooler |
| | Improper preservation | | Please specify TCLP requested. | | Improper handling by carrier (FedEx / UPS / Couri |
| | Insufficient sample volume. | | Received additional samples not listed on coc. | | Sample was frozen |
| | Sample is biphasic. | | Sample ids on containers do not match ids on coc | | Container lid not intact |
| | Vials received with headspace. | | Trip Blank not received. | | **If no Chain of Custody:** |
| X | Broken container | | Client did not "X" analysis. | | Received by: |
| | Broken container: | | Chain of Custody is missing | | Date/Time: |
| | Sufficient sample remains | | | | Temp./Cont. Rec./pH: |
| | | | | | Carrier: |
| | | | | | Tracking# |

**Login Comments:**

B-216-85 one SBB vial received broken

| Client informed by: | | Call | | Email | | Voice Mail | | Date: | Time: |
|---|---|---|---|---|---|---|---|---|---|
| TSR Initials:bjf | Client Contact: | | | | | | | | |

**Login Instructions:**

Proceed with remaining sample volume

**This E-mail and any attached files are confidential, and may be copyright protected. If you are not the addressee, any dissemination of this communication is strictly prohibited. If you have received this message in error, please contact the sender immediately and delete/destroy all information received.**

# MEMORANDUM

**TO:** Project File **DATE:** October 12, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** September 1, 2017 – Soil and Groundwater Samples

**LAB:** ESC Lab ID L933742

---

Eleven (11) soil samples, one (1) groundwater sample, and a trip blank were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 1, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. One soil and one groundwater sample were placed on hold. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L933742. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L933742 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested with the following discussion:

- ESC Non-Conformance Form indicates that one of the VOC vials for sample B-216-85 (L933742-09) was broken. ESC proceeded with the requested analysis after confirmation with PES. No action was taken other than to note this.

### Sample Collection and Preservation

Samples were collected on September 1, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 2.0 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

### Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved water from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils and preserved water from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. Holding time criteria were met.

### Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C (soil):* Continuing calibration verification (CCV) issues are noted by ESC for trans-1,4-dichloro-2-butene associated with analytical batch WG1017429 (analyzed on September 7, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ).**

- *USEPA Method 8260C (soil):* Continuing calibration verification (CCV) issues are noted by ESC for acetone, acrylonitrile, chloromethane, dichlorodifluoromethane, 2-hexanone, n-hexane, 2-butanone (MEK), and 4-methyl-2-pentanone (MIBK) associated with analytical batch WG1017434 (analyzed on September 7, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **The associated sample B-216-95 result laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs).

*NWTPH-Gx Method:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDL.

*Total Solids by SM 2540 G 2011:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was collected and submitted for analysis. The target analytes (VOCs) were not detected in the trip blank at or above the reported detection limits (RDLs).

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate samples were not collected. Refer to spike data for accuracy and precision data.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*NWTPH-Gx Method:*
Laboratory duplicate samples were not analyzed. Refer to LCS/LCSDs and MS/MSDs results for precision data on soils and waters.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analysis was performed on client samples MW-137-85. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS and LCS/LCSDs were analyzed by USEPA Method 8260C method. The LCS and LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters with one exception:

- LCS/LCSD (Batch WG1017434) RPD result for acetone is above laboratory acceptance criteria (20%) and qualified by the laboratory (J3). No action was taken on this basis as MS/MSD percent recovery results are recovered wide but are within control limits.

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPDs for the control analyte (gasoline) are within the laboratory control criteria for soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses on soils were performed on non-client

sample within the analytical batch. Refer to LCS results for accuracy data since MS/MSD analyses were not performed on the analytical batch associated with the water (trip blank) sample. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for soils with the following discussion:

- MS/MSD (Batch WG1017434) recoveries for chloroethane are low, below laboratory acceptance criteria, and qualified (J6) by the laboratory to indicate matrix interference. No action is taken since this spike was performed on a non-client sample within the analytical batch and LCS/LCSD results for chloroethane are acceptable.

*NWTPH-Gx Method:*
MS/MSDs were analyzed by the NWTPH-Gx method on a non-client sample within the analytical batch. The MS/MSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for soils.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.4 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0406 | 0.120 | 1 | 09/10/2017 03:47 | WG1018662 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.5* | | | *77.0-120* | | *09/10/2017 03:47* | WG1018662 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0120 | 0.0599 | 1 | 09/07/2017 01:06 | WG1017429 |
| Acrylonitrile | U | | 0.00215 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Benzene | U | | 0.000324 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Bromobenzene | U | | 0.000340 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Bromodichloromethane | U | | 0.000304 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Bromochloromethane | U | | 0.000467 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| Bromoform | U | | 0.000508 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Bromomethane | U | | 0.00161 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| n-Butylbenzene | U | | 0.000309 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| sec-Butylbenzene | U | | 0.000241 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| tert-Butylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Carbon disulfide | 0.00141 | | 0.000265 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Carbon tetrachloride | U | | 0.000393 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Chlorobenzene | U | | 0.000254 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Chlorodibromomethane | U | | 0.000447 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Chloroethane | U | | 0.00113 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| Chloroform | U | | 0.000274 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| Chloromethane | U | | 0.000449 | 0.00300 | 1 | 09/07/2017 01:06 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000361 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000288 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000411 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Dibromomethane | U | | 0.000458 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000366 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000286 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000271 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000855 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000238 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000318 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000363 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| cis-1,2-Dichloroethene | U | | 0.000282 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000316 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000429 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000380 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000248 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000314 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000320 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U UJ | JO | 0.000932 | 0.00300 | 1 | 09/07/2017 01:06 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000334 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Di-isopropyl ether | U | | 0.000297 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Ethylbenzene | U | | 0.000356 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000410 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 2-Hexanone | U | | 0.00164 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |
| n-Hexane | 0.00261 J | J | 0.000348 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |

JC 10/12/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00303 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Isopropylbenzene | U | | 0.000291 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000244 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 2-Butanone (MEK) | U | | 0.00561 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Methylene Chloride | U | | 0.00120 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00225 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Methyl tert-butyl ether | U | | 0.000254 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Naphthalene | U | | 0.00120 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| n-Propylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Styrene | U | | 0.000280 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000316 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000437 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000437 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Tetrachloroethene | U | | 0.000331 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Toluene | U | | 0.000520 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000465 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000343 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000332 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Trichloroethene | U | | 0.000334 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000458 | 0.00599 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000888 | 0.00300 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000253 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000344 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000319 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Vinyl acetate | U | | 0.00286 | 0.0120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Vinyl chloride | U | | 0.000349 | 0.00120 | 1 | 09/07/2017 01:06 | WG1017429 |
| Xylenes, Total | U | | 0.000837 | 0.00360 | 1 | 09/07/2017 01:06 | WG1017429 |
| *(S) Toluene-d8* | *97.7* | | | *80.0-120* | | *09/07/2017 01:06* | WG1017429 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/07/2017 01:06* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/07/2017 01:06* | WG1017429 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.4 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0363 | 0.107 | 1 | 09/10/2017 04:09 | WG1018662 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.7* | | | *77.0-120* | | *09/10/2017 04:09* | WG1018662 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0107 | 0.0535 | 1 | 09/07/2017 01:28 | WG1017429 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Benzene | U | | 0.000289 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Bromobenzene | U | | 0.000304 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Bromochloromethane | U | | 0.000418 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| Bromoform | U | | 0.000454 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Bromomethane | U | | 0.00143 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Carbon disulfide | 0.000537 J | J | 0.000237 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Carbon tetrachloride | U | | 0.000351 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Chloroethane | U | | 0.00101 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| Chloroform | U | | 0.000245 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| Chloromethane | U | | 0.000402 | 0.00268 | 1 | 09/07/2017 01:28 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000367 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Dibromomethane | U | | 0.000409 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000764 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| cis-1,2-Dichloroethene | U | | 0.000252 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000283 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U UJ | JO | 0.000833 | 0.00268 | 1 | 09/07/2017 01:28 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000299 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Di-isopropyl ether | U | | 0.000266 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000366 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |
| n-Hexane | 0.00340 J | J | 0.000311 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 2-Butanone (MEK) | U | | 0.00501 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Methylene Chloride | U | | 0.00107 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Naphthalene | U | | 0.00107 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000283 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000391 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000391 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Tetrachloroethene | U | | 0.000296 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Toluene | U | | 0.000465 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000416 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000297 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Trichloroethene | U | | 0.000299 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000409 | 0.00535 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000794 | 0.00268 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000307 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Vinyl chloride | U | | 0.000312 | 0.00107 | 1 | 09/07/2017 01:28 | WG1017429 |
| Xylenes, Total | U | | 0.000747 | 0.00321 | 1 | 09/07/2017 01:28 | WG1017429 |
| *(S) Toluene-d8* | *99.7* | | | *80.0-120* | | *09/07/2017 01:28* | WG1017429 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/07/2017 01:28* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *09/07/2017 01:28* | WG1017429 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.8 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0108 | 0.0539 | 1 | 09/07/2017 01:49 | WG1017429 |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Benzene | U | | 0.000291 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Bromobenzene | U | | 0.000306 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Bromodichloromethane | U | | 0.000274 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Bromochloromethane | U | | 0.000420 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| Bromoform | U | | 0.000457 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Bromomethane | U | | 0.00144 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| n-Butylbenzene | U | | 0.000278 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| sec-Butylbenzene | U | | 0.000216 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| tert-Butylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Carbon disulfide | 0.000700 | J J | 0.000238 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Carbon tetrachloride | U | | 0.000353 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Chlorobenzene | U | | 0.000228 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Chlorodibromomethane | U | | 0.000402 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Chloroethane | U | | 0.00102 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| Chloroform | U | | 0.000247 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| Chloromethane | U | | 0.000404 | 0.00269 | 1 | 09/07/2017 01:49 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000324 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000259 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000369 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Dibromomethane | U | | 0.000411 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000329 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000768 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000326 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| cis-1,2-Dichloroethene | U | | 0.000253 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000284 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000386 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000341 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000282 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000288 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U | UJ JO | 0.000838 | 0.00269 | 1 | 09/07/2017 01:49 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000301 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Di-isopropyl ether | U | | 0.000267 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Ethylbenzene | U | | 0.000320 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000368 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |
| n-Hexane | 0.000460 | J J | 0.000312 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Iodomethane | U | | 0.00273 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Isopropylbenzene | U | | 0.000262 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000220 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 2-Butanone (MEK) | U | | 0.00504 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Methylene Chloride | U | | 0.00108 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Naphthalene | U | | 0.00108 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| n-Propylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Styrene | U | | 0.000252 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000393 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000393 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Tetrachloroethene | 0.00134 | | 0.000297 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Toluene | U | | 0.000467 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000418 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000308 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Trichloroethene | U | | 0.000301 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000411 | 0.00539 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000798 | 0.00269 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000309 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000287 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Vinyl acetate | U | | 0.00257 | 0.0108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Vinyl chloride | U | | 0.000313 | 0.00108 | 1 | 09/07/2017 01:49 | WG1017429 |
| Xylenes, Total | U | | 0.000752 | 0.00323 | 1 | 09/07/2017 01:49 | WG1017429 |
| *(S) Toluene-d8* | *99.8* | | | *80.0-120* | | *09/07/2017 01:49* | WG1017429 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/07/2017 01:49* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *99.4* | | | *64.0-132* | | *09/07/2017 01:49* | WG1017429 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.2 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0269 J | J | 0.0108 | 0.0542 | 1 | 09/07/2017 02:11 | WG1017429 |
| Acrylonitrile | U | | 0.00194 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Benzene | U | | 0.000293 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Bromobenzene | U | | 0.000308 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Bromodichloromethane | U | | 0.000276 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Bromochloromethane | U | | 0.000423 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| Bromoform | U | | 0.000460 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Bromomethane | U | | 0.00145 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| n-Butylbenzene | U | | 0.000280 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| sec-Butylbenzene | U | | 0.000218 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Carbon disulfide | 0.000272 J | J | 0.000240 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Carbon tetrachloride | U | | 0.000356 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Chlorobenzene | U | | 0.000230 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Chlorodibromomethane | U | | 0.000405 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Chloroethane | U | | 0.00103 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| Chloroform | U | | 0.000248 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| Chloromethane | U | | 0.000407 | 0.00271 | 1 | 09/07/2017 02:11 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000327 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000260 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000372 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Dibromomethane | U | | 0.000414 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000259 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000245 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000773 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000287 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000329 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| cis-1,2-Dichloroethene | U | | 0.000255 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000286 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000388 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000344 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000284 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U UJ | JO | 0.000844 | 0.00271 | 1 | 09/07/2017 02:11 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Di-isopropyl ether | U | | 0.000269 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Ethylbenzene | U | | 0.000322 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000371 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 2-Hexanone | U | | 0.00149 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |
| n-Hexane | 0.000659 J | J | 0.000315 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Iodomethane | U | | 0.00274 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Isopropylbenzene | U | | 0.000264 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 2-Butanone (MEK) | 0.00569 J | J | 0.00508 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Methylene Chloride | U | | 0.00108 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000230 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Naphthalene | U | | 0.00108 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Styrene | U | | 0.000254 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000286 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000396 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000396 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Tetrachloroethene | U | | 0.000299 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Toluene | U | | 0.000471 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000332 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000421 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000310 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000300 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Trichloroethene | U | | 0.000303 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000414 | 0.00542 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000804 | 0.00271 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000229 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000311 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Vinyl acetate | U | | 0.00259 | 0.0108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Vinyl chloride | U | | 0.000316 | 0.00108 | 1 | 09/07/2017 02:11 | WG1017429 |
| Xylenes, Total | U | | 0.000757 | 0.00325 | 1 | 09/07/2017 02:11 | WG1017429 |
| *(S) Toluene-d8* | *98.0* | | | *80.0-120* | | *09/07/2017 02:11* | WG1017429 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/07/2017 02:11* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/07/2017 02:11* | WG1017429 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.5 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0108 | 0.0540 | 1 | 09/07/2017 02:33 | WG1017429 |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Benzene | U | | 0.000292 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Bromobenzene | U | | 0.000307 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Bromochloromethane | U | | 0.000422 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| Bromoform | U | | 0.000458 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Bromomethane | U | | 0.00145 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| n-Butylbenzene | U | | 0.000279 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| sec-Butylbenzene | U | | 0.000217 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Carbon disulfide | 0.000310 | J J | 0.000239 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Carbon tetrachloride | U | | 0.000355 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Chlorobenzene | U | | 0.000229 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Chlorodibromomethane | U | | 0.000403 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Chloroethane | U | | 0.00102 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| Chloroform | U | | 0.000248 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| Chloromethane | U | | 0.000405 | 0.00270 | 1 | 09/07/2017 02:33 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000325 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000259 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000371 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Dibromomethane | U | | 0.000413 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000258 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000244 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000771 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000215 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000286 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000328 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| cis-1,2-Dichloroethene | U | | 0.000254 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000285 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000387 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000343 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000283 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000289 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U | UJ JO | 0.000841 | 0.00270 | 1 | 09/07/2017 02:33 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000302 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Di-isopropyl ether | U | | 0.000268 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Ethylbenzene | U | | 0.000321 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000370 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |
| n-Hexane | 0.000708 | J J | 0.000313 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Iodomethane | U | | 0.00273 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Isopropylbenzene | U | | 0.000263 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 2-Butanone (MEK) | U | | 0.00506 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Methylene Chloride | U | | 0.00108 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00203 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000229 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Naphthalene | U | | 0.00108 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Styrene | U | | 0.000253 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000285 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000395 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000395 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Tetrachloroethene | U | | 0.000298 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Toluene | U | | 0.000469 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000419 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000309 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000299 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Trichloroethene | U | | 0.000302 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000413 | 0.00540 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000801 | 0.00270 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000228 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000310 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Vinyl acetate | U | | 0.00258 | 0.0108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Vinyl chloride | U | | 0.000315 | 0.00108 | 1 | 09/07/2017 02:33 | WG1017429 |
| Xylenes, Total | U | | 0.000754 | 0.00324 | 1 | 09/07/2017 02:33 | WG1017429 |
| *(S) Toluene-d8* | *98.7* | | | *80.0-120* | | *09/07/2017 02:33* | WG1017429 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/07/2017 02:33* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *99.4* | | | *64.0-132* | | *09/07/2017 02:33* | WG1017429 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.7 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0415 | 0.122 | 1 | 09/10/2017 04:32 | WG1018662 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.5* | | | *77.0-120* | | *09/10/2017 04:32* | WG1018662 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U | | 0.0122 | 0.0612 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Acrylonitrile | U | | 0.00219 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Benzene | U | | 0.000330 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Bromobenzene | U | | 0.000347 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Bromodichloromethane | U | | 0.000311 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Bromochloromethane | U | | 0.000477 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Bromoform | U | | 0.000519 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Bromomethane | U | | 0.00164 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 | |
| n-Butylbenzene | U | | 0.000316 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| sec-Butylbenzene | U | | 0.000246 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| tert-Butylbenzene | U | | 0.000252 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Carbon disulfide | U | | 0.000270 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Carbon tetrachloride | U | | 0.000401 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Chlorobenzene | U | | 0.000259 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Chlorodibromomethane | U | | 0.000456 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Chloroethane | U | | 0.00116 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Chloroform | U | | 0.000280 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Chloromethane | U | | 0.000459 | 0.00306 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 2-Chlorotoluene | U | | 0.000368 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 4-Chlorotoluene | U | | 0.000294 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00128 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 1,2-Dibromoethane | U | | 0.000420 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Dibromomethane | U | | 0.000467 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 1,2-Dichlorobenzene | U | | 0.000373 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 1,3-Dichlorobenzene | U | | 0.000292 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 1,4-Dichlorobenzene | U | | 0.000276 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Dichlorodifluoromethane | U | | 0.000872 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 1,1-Dichloroethane | U | | 0.000243 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 1,2-Dichloroethane | U | | 0.000324 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 1,1-Dichloroethene | U | | 0.000371 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| cis-1,2-Dichloroethene | U | | 0.000287 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| trans-1,2-Dichloroethene | U | | 0.000323 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 1,2-Dichloropropane | U | | 0.000438 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 1,1-Dichloropropene | U | | 0.000388 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 1,3-Dichloropropane | U | | 0.000253 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| cis-1,3-Dichloropropene | U | | 0.000321 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| trans-1,3-Dichloropropene | U | | 0.000327 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| trans-1,4-Dichloro-2-butene | U | UJ J0 | 0.000952 | 0.00306 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 2,2-Dichloropropane | U | | 0.000341 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Di-isopropyl ether | U | | 0.000303 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Ethylbenzene | U | | 0.000363 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| Hexachloro-1,3-butadiene | U | | 0.000418 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| 2-Hexanone | U | | 0.00168 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 | |
| n-Hexane | U | | 0.000355 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 | JC 10/12/17 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00310 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Isopropylbenzene | U | | 0.000297 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000250 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 2-Butanone (MEK) | U | | 0.00573 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Methylene Chloride | U | | 0.00122 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00230 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Methyl tert-butyl ether | U | | 0.000259 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Naphthalene | U | | 0.00122 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| n-Propylbenzene | U | | 0.000252 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Styrene | U | | 0.000286 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000323 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000447 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000447 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Tetrachloroethene | U | | 0.000338 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Toluene | U | | 0.000531 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000374 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000475 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000350 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000339 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Trichloroethene | U | | 0.000341 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000467 | 0.00612 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000907 | 0.00306 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000258 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000351 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000325 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Vinyl acetate | U | | 0.00292 | 0.0122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Vinyl chloride | U | | 0.000356 | 0.00122 | 1 | 09/07/2017 02:55 | WG1017429 |
| Xylenes, Total | U | | 0.000854 | 0.00367 | 1 | 09/07/2017 02:55 | WG1017429 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/07/2017 02:55* | WG1017429 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/07/2017 02:55* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *64.0-132* | | *09/07/2017 02:55* | WG1017429 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.3 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0145 J | J | 0.0120 | 0.0600 | 1 | 09/07/2017 17:50 | WG1017429 |
| Acrylonitrile | U | | 0.00215 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Benzene | U | | 0.000324 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Bromobenzene | U | | 0.000341 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Bromodichloromethane | U | | 0.000305 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Bromochloromethane | U | | 0.000468 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| Bromoform | U | | 0.000509 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Bromomethane | U | | 0.00161 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| n-Butylbenzene | U | | 0.000310 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| sec-Butylbenzene | U | | 0.000241 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| tert-Butylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Carbon disulfide | 0.000664 J | J | 0.000265 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Carbon tetrachloride | U | | 0.000394 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Chlorobenzene | U | | 0.000254 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Chlorodibromomethane | U | | 0.000448 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Chloroethane | U | | 0.00114 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| Chloroform | U | | 0.000275 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| Chloromethane | U | | 0.000450 | 0.00300 | 1 | 09/07/2017 17:50 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000361 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000288 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000412 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Dibromomethane | U | | 0.000459 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000366 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000287 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000271 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000856 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000239 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000318 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000364 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| cis-1,2-Dichloroethene | U | | 0.000282 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000317 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000430 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000381 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000248 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000315 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000321 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U | | 0.000934 | 0.00300 | 1 | 09/07/2017 17:50 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000335 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Di-isopropyl ether | U | | 0.000298 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Ethylbenzene | U | | 0.000357 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000411 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 2-Hexanone | U | | 0.00164 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |
| n-Hexane | 0.00129 J | J | 0.000348 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Iodomethane | U | | 0.00304 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Isopropylbenzene | U | | 0.000292 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000245 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 2-Butanone (MEK) | U | | 0.00562 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Methylene Chloride | U | | 0.00120 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00226 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000254 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Naphthalene | U | | 0.00120 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| n-Propylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Styrene | U | | 0.000281 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000317 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000438 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000438 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Tetrachloroethene | U | | 0.000331 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Toluene | U | | 0.000521 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000466 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000343 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000333 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Trichloroethene | U | | 0.000335 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000459 | 0.00600 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000890 | 0.00300 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000253 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000345 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000319 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Vinyl acetate | U | | 0.00287 | 0.0120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Vinyl chloride | U | | 0.000349 | 0.00120 | 1 | 09/07/2017 17:50 | WG1017429 |
| Xylenes, Total | U | | 0.000838 | 0.00360 | 1 | 09/07/2017 17:50 | WG1017429 |
| *(S) Toluene-d8* | *95.7* | | | *80.0-120* | | *09/07/2017 17:50* | WG1017429 |
| *(S) Dibromofluoromethane* | *113* | | | *74.0-131* | | *09/07/2017 17:50* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/07/2017 17:50* | WG1017429 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.8 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | 0.0386 J | J | 0.0113 | 0.0563 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Benzene | 0.0221 | | 0.000304 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Bromobenzene | U | | 0.000320 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Bromodichloromethane | U | | 0.000286 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Bromochloromethane | U | | 0.000439 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Bromoform | U | | 0.000477 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Bromomethane | U | | 0.00151 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 | |
| n-Butylbenzene | 0.00318 | | 0.000290 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| sec-Butylbenzene | 0.000274 J | J | 0.000226 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| tert-Butylbenzene | U | | 0.000232 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Carbon disulfide | 0.00288 | | 0.000249 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Carbon tetrachloride | U | | 0.000369 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Chlorobenzene | U | | 0.000239 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Chlorodibromomethane | U | | 0.000420 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Chloroethane | U | | 0.00107 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Chloroform | U | | 0.000258 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Chloromethane | U | | 0.000422 | 0.00281 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 2-Chlorotoluene | U | | 0.000339 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 4-Chlorotoluene | U | | 0.000270 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 1,2-Dibromoethane | U | | 0.000386 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Dibromomethane | U | | 0.000430 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 1,2-Dichlorobenzene | U | | 0.000343 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 1,3-Dichlorobenzene | U | | 0.000269 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 1,4-Dichlorobenzene | U | | 0.000254 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Dichlorodifluoromethane | U | | 0.000803 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 1,1-Dichloroethane | U | | 0.000224 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 1,2-Dichloroethane | U | | 0.000298 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 1,1-Dichloroethene | 0.000509 J | J | 0.000341 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| cis-1,2-Dichloroethene | 0.182 | | 0.000265 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| trans-1,2-Dichloroethene | 0.00356 | | 0.000297 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 1,2-Dichloropropane | U | | 0.000403 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 1,1-Dichloropropene | U | | 0.000357 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 1,3-Dichloropropane | U | | 0.000233 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| cis-1,3-Dichloropropene | U | | 0.000295 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| trans-1,3-Dichloropropene | U | | 0.000301 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| trans-1,4-Dichloro-2-butene | U UJ | JO | 0.000876 | 0.00281 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 2,2-Dichloropropane | U | | 0.000314 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Di-isopropyl ether | U | | 0.000279 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Ethylbenzene | 0.00876 | | 0.000334 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Hexachloro-1,3-butadiene | U | | 0.000385 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 2-Hexanone | 0.00727 J | J | 0.00154 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| n-Hexane | 0.0368 | | 0.000327 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Iodomethane | U | | 0.00285 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Isopropylbenzene | 0.000650 J | J | 0.000274 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| p-Isopropyltoluene | U | | 0.000230 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 | JC 10/12/17 |
| 2-Butanone (MEK) | 0.0293 | | 0.00527 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 | |
| Methylene Chloride | U | | 0.00113 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 | |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00212 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 | |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000239 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Naphthalene | 0.00226 J | J | 0.00113 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 |
| n-Propylbenzene | 0.00407 | | 0.000232 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Styrene | 0.000676 J | J | 0.000263 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000297 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000411 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000411 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Tetrachloroethene | 0.0139 | | 0.000311 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Toluene | 0.0228 | | 0.000489 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000437 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000322 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000312 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Trichloroethene | 0.00182 | | 0.000314 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000430 | 0.00563 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000834 | 0.00281 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2,4-Trimethylbenzene | 0.00330 | | 0.000238 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,2,3-Trimethylbenzene | 0.00117 | | 0.000323 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| 1,3,5-Trimethylbenzene | 0.000732 J | J | 0.000299 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Vinyl acetate | U | | 0.00269 | 0.0113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Vinyl chloride | 0.00113 | | 0.000328 | 0.00113 | 1 | 09/07/2017 03:17 | WG1017429 |
| Xylenes, Total | 0.0189 | | 0.000786 | 0.00338 | 1 | 09/07/2017 03:17 | WG1017429 |
| *(S) Toluene-d8* | *92.5* | | | *80.0-120* | | *09/07/2017 03:17* | WG1017429 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/07/2017 03:17* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *99.7* | | | *64.0-132* | | *09/07/2017 03:17* | WG1017429 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.9 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0220 J | J | 0.0121 | 0.0603 | 1 | 09/07/2017 03:39 | WG1017429 |
| Acrylonitrile | U | | 0.00216 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Benzene | 0.000541 J | J | 0.000326 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Bromobenzene | U | | 0.000343 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Bromodichloromethane | U | | 0.000306 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Bromochloromethane | U | | 0.000470 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| Bromoform | U | | 0.000511 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Bromomethane | U | | 0.00162 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| n-Butylbenzene | U | | 0.000311 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| sec-Butylbenzene | U | | 0.000242 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| tert-Butylbenzene | U | | 0.000248 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Carbon disulfide | 0.00382 | | 0.000267 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Carbon tetrachloride | U | | 0.000396 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Chlorobenzene | U | | 0.000256 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Chlorodibromomethane | U | | 0.000450 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Chloroethane | U | | 0.00114 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| Chloroform | U | | 0.000276 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| Chloromethane | U | | 0.000452 | 0.00302 | 1 | 09/07/2017 03:39 | WG1017429 |
| 2-Chlorotoluene | U | | 0.000363 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 4-Chlorotoluene | U | | 0.000289 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00127 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2-Dibromoethane | U | | 0.000414 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Dibromomethane | U | | 0.000461 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2-Dichlorobenzene | U | | 0.000368 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,3-Dichlorobenzene | U | | 0.000288 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,4-Dichlorobenzene | U | | 0.000273 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Dichlorodifluoromethane | U | | 0.000860 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1-Dichloroethane | U | | 0.000240 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2-Dichloroethane | U | | 0.000320 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1-Dichloroethene | U | | 0.000365 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| cis-1,2-Dichloroethene | 0.000289 J | J | 0.000283 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| trans-1,2-Dichloroethene | U | | 0.000318 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2-Dichloropropane | U | | 0.000432 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1-Dichloropropene | U | | 0.000382 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,3-Dichloropropane | U | | 0.000250 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| cis-1,3-Dichloropropene | U | | 0.000316 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| trans-1,3-Dichloropropene | U | | 0.000322 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000938 | 0.00302 | 1 | 09/07/2017 03:39 | WG1017429 |
| 2,2-Dichloropropane | U | | 0.000336 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Di-isopropyl ether | U | | 0.000299 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Ethylbenzene | U | | 0.000358 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Hexachloro-1,3-butadiene | U | | 0.000412 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 2-Hexanone | U | | 0.00165 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |
| n-Hexane | 0.00652 J | J | 0.000350 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Iodomethane | U | | 0.00305 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Isopropylbenzene | U | | 0.000293 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| p-Isopropyltoluene | U | | 0.000246 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 2-Butanone (MEK) | 0.0107 J | J | 0.00564 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Methylene Chloride | U | | 0.00121 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00227 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000256 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Naphthalene | U | | 0.00121 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| n-Propylbenzene | U | | 0.000248 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Styrene | U | | 0.000282 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000318 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000440 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000440 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Tetrachloroethene | U | | 0.000333 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Toluene | 0.000655 | J J | 0.000523 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2,3-Trichlorobenzene | U | | 0.000369 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2,4-Trichlorobenzene | U | | 0.000468 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1,1-Trichloroethane | U | | 0.000345 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,1,2-Trichloroethane | U | | 0.000334 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Trichloroethene | U | | 0.000336 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Trichlorofluoromethane | U | | 0.000461 | 0.00603 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2,3-Trichloropropane | U | | 0.000894 | 0.00302 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2,4-Trimethylbenzene | U | | 0.000254 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,2,3-Trimethylbenzene | U | | 0.000346 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| 1,3,5-Trimethylbenzene | U | | 0.000321 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Vinyl acetate | U | | 0.00288 | 0.0121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Vinyl chloride | U | | 0.000351 | 0.00121 | 1 | 09/07/2017 03:39 | WG1017429 |
| Xylenes, Total | U | | 0.000842 | 0.00362 | 1 | 09/07/2017 03:39 | WG1017429 |
| *(S) Toluene-d8* | *98.7* | | | *80.0-120* | | *09/07/2017 03:39* | WG1017429 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/07/2017 03:39* | WG1017429 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *09/07/2017 03:39* | WG1017429 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.0 | | 1 | 09/08/2017 15:56 | WG1018229 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0114 | 0.0568 | 1 | 09/07/2017 00:42 | WG1017434 |
| Acrylonitrile | U UJ | J0 | 0.00203 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Benzene | U | | 0.000307 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Bromobenzene | U | | 0.000323 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Bromodichloromethane | U | | 0.000289 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Bromochloromethane | U | | 0.000443 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| Bromoform | U | | 0.000482 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Bromomethane | U | | 0.00152 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| n-Butylbenzene | U | | 0.000293 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| sec-Butylbenzene | U | | 0.000228 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| tert-Butylbenzene | U | | 0.000234 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Carbon disulfide | U | | 0.000251 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Carbon tetrachloride | U | | 0.000373 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Chlorobenzene | U | | 0.000241 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Chlorodibromomethane | U | | 0.000424 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Chloroethane | U | | 0.00107 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| Chloroform | U | | 0.000260 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| Chloromethane | U UJ | J0 | 0.000426 | 0.00284 | 1 | 09/07/2017 00:42 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000342 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000273 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000390 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Dibromomethane | U | | 0.000434 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000272 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000810 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000226 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000301 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000344 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000267 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000300 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000407 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000360 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000235 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000298 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000303 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000884 | 0.00284 | 1 | 09/07/2017 00:42 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000317 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Di-isopropyl ether | U | | 0.000282 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Ethylbenzene | U | | 0.000337 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000389 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 2-Hexanone | U UJ | J0 | 0.00156 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |
| n-Hexane | 0.00113 J | J J0 | 0.000329 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Iodomethane | U | | 0.00287 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Isopropylbenzene | U | | 0.000276 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00532 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Methylene Chloride | U | | 0.00114 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00214 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000241 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Naphthalene | U | | 0.00114 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| n-Propylbenzene | U | | 0.000234 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Styrene | U | | 0.000266 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000300 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000415 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000415 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Tetrachloroethene | U | | 0.000314 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Toluene | U | | 0.000493 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000441 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000325 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000315 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Trichloroethene | U | | 0.000317 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000434 | 0.00568 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000842 | 0.00284 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000240 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000326 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000302 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Vinyl acetate | U | | 0.00272 | 0.0114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Vinyl chloride | U | | 0.000331 | 0.00114 | 1 | 09/07/2017 00:42 | WG1017434 |
| Xylenes, Total | U | | 0.000793 | 0.00341 | 1 | 09/07/2017 00:42 | WG1017434 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/07/2017 00:42* | WG1017434 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *09/07/2017 00:42* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *09/07/2017 00:42* | WG1017434 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1.05 | 25.0 | 1 | 09/06/2017 14:03 | WG1017271 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/06/2017 14:03 | WG1017271 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/06/2017 14:03 | WG1017271 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |

JC 10/12/17

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Vinyl acetate | U | UJ J0 | 0.645 | 5.00 | 1 | 09/06/2017 14:03 | WG1017271 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/06/2017 14:03 | WG1017271 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/06/2017 14:03 | WG1017271 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/06/2017 14:03* | WG1017271 |
| *(S) Dibromofluoromethane* | *105* | | | *76.0-123* | | *09/06/2017 14:03* | WG1017271 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *80.0-120* | | *09/06/2017 14:03* | WG1017271 |

JC 10/12/17

# ANALYTICAL REPORT

September 13, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L934130 |
| Samples Received: | 09/06/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-213-15 L934130-01 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 10:50 | Received date/time: 09/06/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018605 | 1 | 09/11/17 09:49 | 09/11/17 09:58 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017434 | 1 | 09/05/17 10:50 | 09/07/17 01:02 | JHH |

## B-213-21.5 L934130-02 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 11:20 | Received date/time: 09/06/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018605 | 1 | 09/11/17 09:49 | 09/11/17 09:58 | MLW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017434 | 1 | 09/05/17 11:20 | 09/07/17 01:22 | JHH |

## B-213-35 L934130-03 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 11:50 | Received date/time: 09/06/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018906 | 1 | 09/11/17 14:41 | 09/11/17 14:58 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017434 | 1 | 09/05/17 11:50 | 09/07/17 01:42 | JHH |

## B-213-45 L934130-04 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 12:55 | Received date/time: 09/06/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018906 | 1 | 09/11/17 14:41 | 09/11/17 14:58 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017434 | 1 | 09/05/17 12:55 | 09/07/17 02:02 | JHH |

## B-213-55 L934130-05 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 14:05 | Received date/time: 09/06/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018906 | 1 | 09/11/17 14:41 | 09/11/17 14:58 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017434 | 1 | 09/05/17 14:05 | 09/07/17 02:22 | JHH |

## B-217-15 L934130-06 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 14:30 | Received date/time: 09/06/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018906 | 1 | 09/11/17 14:41 | 09/11/17 14:58 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017434 | 1 | 09/05/17 14:30 | 09/07/17 02:42 | JHH |

## B-217-25 L934130-07 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 15:00 | Received date/time: 09/06/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018906 | 1 | 09/11/17 14:41 | 09/11/17 14:58 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017434 | 1 | 09/05/17 15:00 | 09/07/17 03:02 | JHH |

## B-217-35 L934130-08 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 15:15 | Received date/time: 09/06/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018906 | 1 | 09/11/17 14:41 | 09/11/17 14:58 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017434 | 1 | 09/05/17 15:15 | 09/07/17 03:21 | JHH |

## B-213-65 L934130-09 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 15:30 | Received date/time: 09/06/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018906 | 1 | 09/11/17 14:41 | 09/11/17 14:58 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017434 | 1 | 09/05/17 15:30 | 09/07/17 03:41 | JHH |

## B-213-75 L934130-10 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 15:45 | Received date/time: 09/06/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018906 | 1 | 09/11/17 14:41 | 09/11/17 14:58 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017434 | 1 | 09/05/17 15:45 | 09/07/17 04:01 | JHH |

## B-217-42 L934130-11 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 15:50 | Received date/time: 09/06/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1018910 | 1 | 09/12/17 10:08 | 09/12/17 10:20 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017434 | 1 | 09/05/17 15:50 | 09/07/17 04:20 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1017434 | 1000 | 09/05/17 15:50 | 09/12/17 16:10 | BMB |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.3 | | 1 | 09/11/2017 09:58 | WG1018605 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0116 | 0.0579 | 1 | 09/07/2017 01:02 | WG1017434 |
| Acrylonitrile | U | J0 | 0.00207 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Bromobenzene | U | | 0.000329 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Bromochloromethane | U | | 0.000452 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| Bromoform | U | | 0.000491 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Bromomethane | U | | 0.00155 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Carbon disulfide | U | | 0.000256 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Carbon tetrachloride | U | | 0.000380 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Chlorodibromomethane | U | | 0.000432 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Chloroethane | U | | 0.00110 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| Chloroform | U | | 0.000265 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| Chloromethane | U | J0 | 0.000435 | 0.00290 | 1 | 09/07/2017 01:02 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000397 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Dichlorodifluoromethane | U | J0 | 0.000826 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000351 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000272 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000306 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000415 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000367 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000902 | 0.00290 | 1 | 09/07/2017 01:02 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000323 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Di-isopropyl ether | U | | 0.000287 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Ethylbenzene | U | | 0.000344 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000396 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 2-Hexanone | U | J0 | 0.00159 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |
| n-Hexane | U | J0 | 0.000336 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Iodomethane | U | | 0.00293 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 2-Butanone (MEK) | U | J0 | 0.00542 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Methylene Chloride | U | | 0.00116 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00218 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Naphthalene | U | | 0.00116 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000423 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000423 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Tetrachloroethene | 0.00289 | | 0.000320 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Toluene | U | | 0.000503 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Trichloroethene | U | | 0.000323 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000859 | 0.00290 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2,4-Trimethylbenzene | 0.000365 | J | 0.000245 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Vinyl chloride | U | | 0.000337 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Xylenes, Total | U | | 0.000809 | 0.00348 | 1 | 09/07/2017 01:02 | WG1017434 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *09/07/2017 01:02* | WG1017434 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/07/2017 01:02* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/07/2017 01:02* | WG1017434 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 96.0 | | 1 | 09/11/2017 09:58 | WG1018605 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0143 | J J0 J3 | 0.0104 | 0.0521 | 1 | 09/07/2017 01:22 | WG1017434 |
| Acrylonitrile | U | J0 | 0.00187 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Benzene | 0.000385 | J | 0.000281 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Bromobenzene | U | | 0.000296 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Bromodichloromethane | U | | 0.000265 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Bromochloromethane | U | | 0.000406 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| Bromoform | U | | 0.000442 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Bromomethane | U | | 0.00140 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| n-Butylbenzene | 0.00519 | | 0.000269 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| sec-Butylbenzene | 0.00362 | | 0.000209 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| tert-Butylbenzene | U | | 0.000215 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Carbon disulfide | 0.000932 | J | 0.000230 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Carbon tetrachloride | U | | 0.000342 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Chlorobenzene | U | | 0.000221 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Chlorodibromomethane | U | | 0.000389 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Chloroethane | U | | 0.000986 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| Chloroform | U | | 0.000239 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| Chloromethane | U | J0 | 0.000391 | 0.00261 | 1 | 09/07/2017 01:22 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000314 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000250 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00109 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000357 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Dibromomethane | U | | 0.000398 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000318 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000249 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000236 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Dichlorodifluoromethane | U | J0 | 0.000743 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000207 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000276 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000316 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000245 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000275 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000373 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000330 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000216 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000273 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000278 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000811 | 0.00261 | 1 | 09/07/2017 01:22 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000291 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Di-isopropyl ether | U | | 0.000258 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Ethylbenzene | 0.000991 | J | 0.000309 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000356 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 2-Hexanone | U | J0 | 0.00143 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |
| n-Hexane | 0.0375 | J0 | 0.000302 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Iodomethane | U | | 0.00264 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Isopropylbenzene | 0.00198 | | 0.000253 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| p-Isopropyltoluene | 0.00445 | | 0.000213 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 2-Butanone (MEK) | 0.00736 | J J0 | 0.00488 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Methylene Chloride | U | | 0.00104 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00196 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000221 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Naphthalene | 0.0239 | | 0.00104 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| n-Propylbenzene | 0.00457 | | 0.000215 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Styrene | U | | 0.000244 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000275 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000380 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000380 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Tetrachloroethene | 0.00263 | | 0.000288 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Toluene | 0.000540 | J | 0.000452 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000319 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000404 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000298 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000289 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Trichloroethene | U | | 0.000291 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000398 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000772 | 0.00261 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2,4-Trimethylbenzene | 0.0661 | | 0.000220 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2,3-Trimethylbenzene | 0.0392 | | 0.000299 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,3,5-Trimethylbenzene | 0.0155 | | 0.000277 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Vinyl acetate | U | | 0.00249 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Vinyl chloride | U | | 0.000303 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Xylenes, Total | 0.0126 | | 0.000727 | 0.00313 | 1 | 09/07/2017 01:22 | WG1017434 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/07/2017 01:22* | WG1017434 |
| *(S) Dibromofluoromethane* | *115* | | | *74.0-131* | | *09/07/2017 01:22* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *152* | J1 | | *64.0-132* | | *09/07/2017 01:22* | WG1017434 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.4 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0108 | 0.0541 | 1 | 09/07/2017 01:42 | WG1017434 |
| Acrylonitrile | U | J0 | 0.00194 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Benzene | U | | 0.000292 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Bromobenzene | U | | 0.000307 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Bromochloromethane | U | | 0.000422 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| Bromoform | U | | 0.000459 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Bromomethane | U | | 0.00145 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| n-Butylbenzene | U | | 0.000279 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| sec-Butylbenzene | U | | 0.000218 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Carbon disulfide | U | | 0.000239 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Carbon tetrachloride | U | | 0.000355 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Chlorobenzene | U | | 0.000230 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Chlorodibromomethane | U | | 0.000404 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Chloroethane | U | | 0.00102 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| Chloroform | U | | 0.000248 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| Chloromethane | U | J0 | 0.000406 | 0.00271 | 1 | 09/07/2017 01:42 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000326 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000260 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000371 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Dibromomethane | U | | 0.000414 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000259 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000245 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Dichlorodifluoromethane | U | J0 | 0.000772 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000215 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000287 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000328 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000254 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000286 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000388 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000343 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000284 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000289 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000842 | 0.00271 | 1 | 09/07/2017 01:42 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000302 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Di-isopropyl ether | U | | 0.000268 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Ethylbenzene | U | | 0.000322 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000370 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 2-Hexanone | U | J0 | 0.00148 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |
| n-Hexane | U | J0 | 0.000314 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Iodomethane | U | | 0.00274 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Isopropylbenzene | U | | 0.000263 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 2-Butanone (MEK) | U | J0 | 0.00507 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Methylene Chloride | U | | 0.00108 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00204 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000230 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Naphthalene | U | | 0.00108 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Styrene | U | | 0.000253 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000286 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000395 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000395 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Tetrachloroethene | U | | 0.000299 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Toluene | U | | 0.000470 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000420 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000310 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000300 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Trichloroethene | U | | 0.000302 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000414 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000802 | 0.00271 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000228 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000311 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Vinyl acetate | U | | 0.00259 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Vinyl chloride | U | | 0.000315 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Xylenes, Total | U | | 0.000756 | 0.00325 | 1 | 09/07/2017 01:42 | WG1017434 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/07/2017 01:42* | WG1017434 |
| *(S) Dibromofluoromethane* | *113* | | | *74.0-131* | | *09/07/2017 01:42* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/07/2017 01:42* | WG1017434 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.2 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0111 | 0.0554 | 1 | 09/07/2017 02:02 | WG1017434 |
| Acrylonitrile | U | J0 | 0.00198 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Benzene | U | | 0.000299 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Bromobenzene | U | | 0.000315 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Bromodichloromethane | U | | 0.000282 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Bromochloromethane | U | | 0.000432 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| Bromoform | U | | 0.000470 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Bromomethane | U | | 0.00149 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| n-Butylbenzene | U | | 0.000286 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| tert-Butylbenzene | U | | 0.000228 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Carbon disulfide | U | | 0.000245 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Carbon tetrachloride | U | | 0.000364 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Chlorobenzene | U | | 0.000235 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Chlorodibromomethane | U | | 0.000413 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Chloroethane | U | | 0.00105 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| Chloroform | U | | 0.000254 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| Chloromethane | U | J0 | 0.000416 | 0.00277 | 1 | 09/07/2017 02:02 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000334 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000266 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000380 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Dibromomethane | U | | 0.000423 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000338 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000265 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000251 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Dichlorodifluoromethane | U | J0 | 0.000790 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000221 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000294 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000336 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000260 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000293 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000397 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000351 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000229 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000290 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000296 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000862 | 0.00277 | 1 | 09/07/2017 02:02 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000309 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Di-isopropyl ether | U | | 0.000275 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Ethylbenzene | U | | 0.000329 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000379 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 2-Hexanone | U | J0 | 0.00152 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |
| n-Hexane | U | J0 | 0.000321 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Iodomethane | U | | 0.00280 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Isopropylbenzene | U | | 0.000269 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000226 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 2-Butanone (MEK) | U | J0 | 0.00519 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Methylene Chloride | U | | 0.00111 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00208 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000235 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Naphthalene | U | | 0.00111 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| n-Propylbenzene | U | | 0.000228 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Styrene | U | | 0.000259 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000293 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000405 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000405 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Tetrachloroethene | U | | 0.000306 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Toluene | U | | 0.000481 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000430 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000317 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000307 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Trichloroethene | U | | 0.000309 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000423 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000821 | 0.00277 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000234 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000318 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000295 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Vinyl acetate | U | | 0.00265 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Vinyl chloride | U | | 0.000323 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Xylenes, Total | U | | 0.000774 | 0.00333 | 1 | 09/07/2017 02:02 | WG1017434 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *09/07/2017 02:02* | WG1017434 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/07/2017 02:02* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *09/07/2017 02:02* | WG1017434 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.9 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0109 | 0.0544 | 1 | 09/07/2017 02:22 | WG1017434 |
| Acrylonitrile | U | J0 | 0.00195 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Bromochloromethane | U | | 0.000425 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Bromomethane | U | | 0.00146 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Carbon disulfide | 0.000834 | J | 0.000241 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Carbon tetrachloride | U | | 0.000357 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Chlorodibromomethane | U | | 0.000406 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Chloroethane | U | | 0.00103 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| Chloroform | U | | 0.000249 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| Chloromethane | U | J0 | 0.000408 | 0.00272 | 1 | 09/07/2017 02:22 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000373 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Dibromomethane | U | | 0.000416 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Dichlorodifluoromethane | U | J0 | 0.000776 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000256 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000287 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000847 | 0.00272 | 1 | 09/07/2017 02:22 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000372 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 2-Hexanone | U | J0 | 0.00149 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |
| n-Hexane | 0.0237 | J0 | 0.000316 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 2-Butanone (MEK) | U | J0 | 0.00509 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Methylene Chloride | U | | 0.00109 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00205 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Naphthalene | U | | 0.00109 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000397 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000397 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Tetrachloroethene | U | | 0.000300 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Toluene | U | | 0.000472 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000422 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000311 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Trichloroethene | U | | 0.000304 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000416 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000807 | 0.00272 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000312 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Vinyl chloride | U | | 0.000317 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Xylenes, Total | U | | 0.000760 | 0.00327 | 1 | 09/07/2017 02:22 | WG1017434 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/07/2017 02:22* | WG1017434 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *09/07/2017 02:22* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/07/2017 02:22* | WG1017434 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.1 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0113 | 0.0567 | 1 | 09/07/2017 02:42 | WG1017434 |
| Acrylonitrile | U | J0 | 0.00203 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Benzene | U | | 0.000306 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Bromobenzene | U | | 0.000322 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Bromodichloromethane | U | | 0.000288 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Bromochloromethane | U | | 0.000443 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| Bromoform | U | | 0.000481 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Bromomethane | U | | 0.00152 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| n-Butylbenzene | U | | 0.000293 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| sec-Butylbenzene | U | | 0.000228 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| tert-Butylbenzene | U | | 0.000234 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Carbon disulfide | 0.000952 | J | 0.000251 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Carbon tetrachloride | U | | 0.000372 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Chlorobenzene | U | | 0.000241 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Chlorodibromomethane | U | | 0.000423 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Chloroethane | U | | 0.00107 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| Chloroform | U | | 0.000260 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| Chloromethane | U | J0 | 0.000426 | 0.00284 | 1 | 09/07/2017 02:42 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000342 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000272 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000389 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Dibromomethane | U | | 0.000434 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000271 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Dichlorodifluoromethane | U | J0 | 0.000809 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000226 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000301 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000344 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000267 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000300 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000406 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000360 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000235 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000297 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000303 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000883 | 0.00284 | 1 | 09/07/2017 02:42 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000317 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Di-isopropyl ether | U | | 0.000281 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Ethylbenzene | U | | 0.000337 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000388 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 2-Hexanone | U | J0 | 0.00155 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |
| n-Hexane | 0.000359 | J J0 | 0.000329 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Iodomethane | U | | 0.00287 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Isopropylbenzene | U | | 0.000276 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 2-Butanone (MEK) | U | J0 | 0.00531 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Methylene Chloride | U | | 0.00113 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00213 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000241 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Naphthalene | U | | 0.00113 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| n-Propylbenzene | U | | 0.000234 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Styrene | U | | 0.000266 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000300 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000414 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000414 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Tetrachloroethene | 0.0221 | | 0.000313 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Toluene | U | | 0.000493 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000347 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000440 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000325 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000314 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Trichloroethene | U | | 0.000317 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000434 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000841 | 0.00284 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000239 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000326 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000302 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Vinyl acetate | U | | 0.00271 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Vinyl chloride | U | | 0.000330 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Xylenes, Total | U | | 0.000792 | 0.00340 | 1 | 09/07/2017 02:42 | WG1017434 |
| *(S) Toluene-d8* | *112* | | | *80.0-120* | | *09/07/2017 02:42* | WG1017434 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/07/2017 02:42* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/07/2017 02:42* | WG1017434 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.2 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0111 | 0.0554 | 1 | 09/07/2017 03:02 | WG1017434 |
| Acrylonitrile | U | J0 | 0.00198 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Benzene | U | | 0.000299 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Bromobenzene | U | | 0.000315 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Bromodichloromethane | U | | 0.000282 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Bromochloromethane | U | | 0.000432 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| Bromoform | U | | 0.000470 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Bromomethane | U | | 0.00149 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| n-Butylbenzene | U | | 0.000286 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| tert-Butylbenzene | U | | 0.000228 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Carbon disulfide | U | | 0.000245 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Carbon tetrachloride | U | | 0.000364 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Chlorobenzene | U | | 0.000235 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Chlorodibromomethane | U | | 0.000414 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Chloroethane | U | | 0.00105 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| Chloroform | U | | 0.000254 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| Chloromethane | U | J0 | 0.000416 | 0.00277 | 1 | 09/07/2017 03:02 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000334 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000266 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000380 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Dibromomethane | U | | 0.000424 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000338 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000265 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000251 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Dichlorodifluoromethane | U | J0 | 0.000791 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000221 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000294 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000336 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| cis-1,2-Dichloroethene | 0.00105 | J | 0.000261 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000293 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000397 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000351 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000230 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000290 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000296 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000863 | 0.00277 | 1 | 09/07/2017 03:02 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000309 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Di-isopropyl ether | U | | 0.000275 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Ethylbenzene | U | | 0.000329 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000379 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 2-Hexanone | U | J0 | 0.00152 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |
| n-Hexane | U | J0 | 0.000322 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Iodomethane | U | | 0.00281 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Isopropylbenzene | U | | 0.000269 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000226 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 2-Butanone (MEK) | U | J0 | 0.00519 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Methylene Chloride | U | | 0.00111 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00208 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000235 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Naphthalene | U | | 0.00111 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| n-Propylbenzene | U | | 0.000228 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Styrene | U | | 0.000259 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000293 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000405 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000405 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Tetrachloroethene | 0.0432 | | 0.000306 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Toluene | U | | 0.000481 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000430 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000317 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000307 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Trichloroethene | 0.00122 | | 0.000309 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000424 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000822 | 0.00277 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000234 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000318 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000295 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Vinyl acetate | U | | 0.00265 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Vinyl chloride | U | | 0.000323 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Xylenes, Total | U | | 0.000774 | 0.00333 | 1 | 09/07/2017 03:02 | WG1017434 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *09/07/2017 03:02* | WG1017434 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *09/07/2017 03:02* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *64.0-132* | | *09/07/2017 03:02* | WG1017434 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.1 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0115 | 0.0574 | 1 | 09/07/2017 03:21 | WG1017434 |
| Acrylonitrile | U | J0 | 0.00205 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Benzene | U | | 0.000310 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Bromobenzene | U | | 0.000326 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Bromochloromethane | U | | 0.000448 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| Bromoform | U | | 0.000487 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Bromomethane | U | | 0.00154 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| n-Butylbenzene | U | | 0.000296 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| tert-Butylbenzene | U | | 0.000236 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Carbon disulfide | U | | 0.000254 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Carbon tetrachloride | U | | 0.000376 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Chlorobenzene | U | | 0.000243 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Chlorodibromomethane | U | | 0.000428 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Chloroethane | U | | 0.00109 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| Chloroform | U | | 0.000263 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| Chloromethane | U | J0 | 0.000430 | 0.00287 | 1 | 09/07/2017 03:21 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000345 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000275 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000394 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Dibromomethane | U | | 0.000438 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000350 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000274 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000259 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Dichlorodifluoromethane | U | J0 | 0.000818 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000228 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000304 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000348 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000270 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000303 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000411 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000364 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000306 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000893 | 0.00287 | 1 | 09/07/2017 03:21 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000320 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Di-isopropyl ether | U | | 0.000285 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Ethylbenzene | U | | 0.000341 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000393 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 2-Hexanone | U | J0 | 0.00157 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |
| n-Hexane | 0.000409 | J J0 | 0.000333 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Iodomethane | U | | 0.00290 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Isopropylbenzene | U | | 0.000279 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000234 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 2-Butanone (MEK) | U | J0 | 0.00537 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Methylene Chloride | U | | 0.00115 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00216 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000243 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Naphthalene | U | | 0.00115 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| n-Propylbenzene | U | | 0.000236 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000303 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000419 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000419 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Tetrachloroethene | U | | 0.000317 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Toluene | U | | 0.000498 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000445 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000328 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000318 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Trichloroethene | U | | 0.000320 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000438 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000851 | 0.00287 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000242 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000329 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000305 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Vinyl acetate | U | | 0.00274 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Vinyl chloride | U | | 0.000334 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Xylenes, Total | U | | 0.000801 | 0.00344 | 1 | 09/07/2017 03:21 | WG1017434 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *09/07/2017 03:21* | WG1017434 |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* | | *09/07/2017 03:21* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/07/2017 03:21* | WG1017434 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.9 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0110 | 0.0550 | 1 | 09/07/2017 03:41 | WG1017434 |
| Acrylonitrile | U | J0 | 0.00197 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Benzene | U | | 0.000297 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Bromobenzene | U | | 0.000312 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Bromodichloromethane | U | | 0.000279 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Bromochloromethane | U | | 0.000429 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| Bromoform | U | | 0.000467 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Bromomethane | U | | 0.00147 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| n-Butylbenzene | U | | 0.000284 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Carbon disulfide | 0.00140 | | 0.000243 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Carbon tetrachloride | U | | 0.000361 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Chlorodibromomethane | U | | 0.000410 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Chloroethane | U | | 0.00104 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| Chloroform | U | | 0.000252 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| Chloromethane | U | J0 | 0.000413 | 0.00275 | 1 | 09/07/2017 03:41 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000331 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000264 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000377 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Dibromomethane | U | | 0.000420 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000263 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000249 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Dichlorodifluoromethane | U | J0 | 0.000785 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000292 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000333 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000259 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000290 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000394 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000349 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000288 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000294 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000856 | 0.00275 | 1 | 09/07/2017 03:41 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000307 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Di-isopropyl ether | U | | 0.000273 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Ethylbenzene | U | | 0.000327 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000376 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 2-Hexanone | U | J0 | 0.00151 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |
| n-Hexane | 0.0107 | J J0 | 0.000319 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Iodomethane | U | | 0.00278 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Isopropylbenzene | U | | 0.000267 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000224 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 2-Butanone (MEK) | U | J0 | 0.00515 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Methylene Chloride | U | | 0.00110 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00207 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Naphthalene | U | | 0.00110 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Styrene | U | | 0.000257 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000290 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000402 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000402 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Tetrachloroethene | U | | 0.000304 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Toluene | U | | 0.000478 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000427 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000315 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000305 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Trichloroethene | U | | 0.000307 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000420 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000815 | 0.00275 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000316 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000293 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Vinyl acetate | U | | 0.00263 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Vinyl chloride | U | | 0.000320 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Xylenes, Total | U | | 0.000768 | 0.00330 | 1 | 09/07/2017 03:41 | WG1017434 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *09/07/2017 03:41* | WG1017434 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/07/2017 03:41* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *64.0-132* | | *09/07/2017 03:41* | WG1017434 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.5 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0109 | 0.0546 | 1 | 09/07/2017 04:01 | WG1017434 |
| Acrylonitrile | U | J0 | 0.00196 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Benzene | U | | 0.000295 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Bromodichloromethane | U | | 0.000278 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Bromochloromethane | U | | 0.000426 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| Bromoform | U | | 0.000463 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Bromomethane | U | | 0.00146 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| n-Butylbenzene | U | | 0.000282 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| sec-Butylbenzene | U | | 0.000220 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Carbon disulfide | U | | 0.000242 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Chlorobenzene | U | | 0.000232 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Chlorodibromomethane | U | | 0.000408 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Chloroethane | U | | 0.00103 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| Chloroform | U | | 0.000250 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| Chloromethane | U | J0 | 0.000410 | 0.00273 | 1 | 09/07/2017 04:01 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000329 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000375 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000247 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Dichlorodifluoromethane | U | J0 | 0.000779 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000290 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000331 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000257 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000289 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000391 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000292 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000850 | 0.00273 | 1 | 09/07/2017 04:01 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000305 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Di-isopropyl ether | U | | 0.000271 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Ethylbenzene | U | | 0.000325 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000374 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 2-Hexanone | U | J0 | 0.00150 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |
| n-Hexane | U | J0 | 0.000317 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Isopropylbenzene | U | | 0.000266 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 2-Butanone (MEK) | U | J0 | 0.00511 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Methylene Chloride | U | | 0.00109 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00205 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000232 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Naphthalene | U | | 0.00109 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Styrene | U | | 0.000256 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000289 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000399 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000399 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Tetrachloroethene | U | | 0.000302 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Toluene | U | | 0.000474 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000424 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000313 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000303 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Trichloroethene | U | | 0.000305 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000417 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000810 | 0.00273 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000231 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000314 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000291 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Vinyl chloride | U | | 0.000318 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Xylenes, Total | U | | 0.000763 | 0.00328 | 1 | 09/07/2017 04:01 | WG1017434 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/07/2017 04:01* | WG1017434 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *09/07/2017 04:01* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/07/2017 04:01* | WG1017434 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.5 | | 1 | 09/12/2017 10:20 | WG1018910 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0114 | 0.0572 | 1 | 09/07/2017 04:20 | WG1017434 |
| Acrylonitrile | U | J0 | 0.00205 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Benzene | U | | 0.000309 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Bromobenzene | U | | 0.000325 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Bromodichloromethane | U | | 0.000290 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Bromochloromethane | U | | 0.000446 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| Bromoform | U | | 0.000485 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Bromomethane | U | | 0.00153 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| n-Butylbenzene | U | | 0.000295 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| sec-Butylbenzene | U | | 0.000230 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| tert-Butylbenzene | U | | 0.000236 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Carbon disulfide | 0.00112 | J | 0.000253 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Carbon tetrachloride | U | | 0.000375 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Chlorodibromomethane | U | | 0.000427 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Chloroethane | U | | 0.00108 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| Chloroform | U | | 0.000262 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| Chloromethane | U | J0 | 0.000429 | 0.00286 | 1 | 09/07/2017 04:20 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000344 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000274 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000392 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Dibromomethane | U | | 0.000437 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000273 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000258 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Dichlorodifluoromethane | U | J0 | 0.000815 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000228 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000303 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1-Dichloroethene | 0.00333 | | 0.000346 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| cis-1,2-Dichloroethene | 5.73 | | 0.269 | 1.14 | 1000 | 09/12/2017 16:10 | WG1017434 |
| trans-1,2-Dichloroethene | 0.00334 | | 0.000302 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000409 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000362 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000237 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000300 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000305 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000890 | 0.00286 | 1 | 09/07/2017 04:20 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000319 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Di-isopropyl ether | U | | 0.000284 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Ethylbenzene | U | | 0.000340 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000391 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 2-Hexanone | U | J0 | 0.00157 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |
| n-Hexane | 0.00116 | J J0 | 0.000332 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Iodomethane | U | | 0.00289 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Isopropylbenzene | U | | 0.000278 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000233 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 2-Butanone (MEK) | U | J0 | 0.00535 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Methylene Chloride | U | | 0.00114 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00215 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Naphthalene | U | | 0.00114 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| n-Propylbenzene | U | | 0.000236 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Styrene | U | | 0.000268 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000302 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000417 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000417 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Tetrachloroethene | 152 | | 0.316 | 1.14 | 1000 | 09/12/2017 16:10 | WG1017434 |
| Toluene | 0.000702 | J | 0.000496 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000350 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000444 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000327 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000317 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Trichloroethene | 0.150 | | 0.000319 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000437 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000847 | 0.00286 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2,4-Trimethylbenzene | 0.00113 | J | 0.000241 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2,3-Trimethylbenzene | 0.000383 | J | 0.000328 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,3,5-Trimethylbenzene | 0.000471 | J | 0.000304 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Vinyl acetate | U | | 0.00273 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Vinyl chloride | 0.464 | J | 0.333 | 1.14 | 1000 | 09/12/2017 16:10 | WG1017434 |
| Xylenes, Total | U | | 0.000798 | 0.00343 | 1 | 09/07/2017 04:20 | WG1017434 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/12/2017 16:10* | WG1017434 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/07/2017 04:20* | WG1017434 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *09/07/2017 04:20* | WG1017434 |
| *(S) Dibromofluoromethane* | *97.3* | | | *74.0-131* | | *09/12/2017 16:10* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *131* | | | *64.0-132* | | *09/07/2017 04:20* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/12/2017 16:10* | WG1017434 |

## Method Blank (MB)

(MB) R3248482-1 09/11/17 09:58

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L934911-01 Original Sample (OS) • Duplicate (DUP)

(OS) L934911-01 09/11/17 09:58 • (DUP) R3248482-3 09/11/17 09:58

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 79.7 | 80.9 | 1 | 1.44 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3248482-2 09/11/17 09:58

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3248464-1 09/11/17 14:58

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.000400 | | | |

## L934130-05 Original Sample (OS) • Duplicate (DUP)

(OS) L934130-05 09/11/17 14:58 • (DUP) R3248464-3 09/11/17 14:58

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 91.9 | 91.5 | 1 | 0.404 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3248464-2 09/11/17 14:58

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3248816-1 09/12/17 10:20

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.000800 | | | |

## L934138-01 Original Sample (OS) • Duplicate (DUP)

(OS) L934138-01 09/12/17 10:20 • (DUP) R3248816-3 09/12/17 10:20

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 91.1 | 91.4 | 1 | 0.395 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3248816-2 09/12/17 10:20

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3248365-3 09/06/17 23:06

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3248365-3 09/06/17 23:06

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *118* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248365-1 09/06/17 22:07 • (LCSD) R3248365-2 09/06/17 22:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0690 | 0.0523 | 55.2 | 41.8 | 11.0-160 | | J3 | 27.6 | 23 |
| Benzene | 0.0250 | 0.0229 | 0.0231 | 91.4 | 92.2 | 71.0-124 | | | 0.890 | 20 |
| Acrylonitrile | 0.125 | 0.0940 | 0.0855 | 75.2 | 68.4 | 61.0-143 | | | 9.42 | 20 |
| Bromodichloromethane | 0.0250 | 0.0255 | 0.0251 | 102 | 100 | 75.0-120 | | | 1.43 | 20 |
| Bromobenzene | 0.0250 | 0.0241 | 0.0246 | 96.6 | 98.6 | 78.0-120 | | | 2.06 | 20 |
| Bromoform | 0.0250 | 0.0258 | 0.0250 | 103 | 100 | 65.0-133 | | | 3.29 | 20 |
| Bromochloromethane | 0.0250 | 0.0260 | 0.0251 | 104 | 101 | 80.0-121 | | | 3.51 | 20 |
| Bromomethane | 0.0250 | 0.0202 | 0.0202 | 80.8 | 80.6 | 26.0-160 | | | 0.170 | 20 |
| n-Butylbenzene | 0.0250 | 0.0240 | 0.0247 | 95.9 | 98.7 | 73.0-126 | | | 2.84 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0253 | 0.0256 | 101 | 102 | 75.0-121 | | | 1.10 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0213 | 0.0213 | 85.3 | 85.2 | 66.0-123 | | | 0.100 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0244 | 0.0248 | 97.6 | 99.3 | 74.0-122 | | | 1.77 | 20 |
| Carbon disulfide | 0.0250 | 0.0230 | 0.0230 | 92.0 | 92.0 | 53.0-130 | | | 0.0700 | 20 |
| Chlorobenzene | 0.0250 | 0.0258 | 0.0266 | 103 | 106 | 79.0-121 | | | 3.06 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0255 | 0.0253 | 102 | 101 | 74.0-128 | | | 0.550 | 20 |
| Chloroethane | 0.0250 | 0.0214 | 0.0211 | 85.7 | 84.2 | 51.0-147 | | | 1.73 | 20 |
| Chloroform | 0.0250 | 0.0237 | 0.0237 | 95.0 | 94.7 | 73.0-123 | | | 0.260 | 20 |
| Chloromethane | 0.0250 | 0.0171 | 0.0171 | 68.3 | 68.6 | 51.0-138 | | | 0.390 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0247 | 0.0252 | 99.0 | 101 | 72.0-124 | | | 1.75 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0240 | 0.0246 | 96.2 | 98.4 | 78.0-120 | | | 2.31 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0237 | 0.0221 | 94.8 | 88.5 | 65.0-126 | | | 6.93 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0279 | 0.0269 | 112 | 108 | 78.0-122 | | | 3.79 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0243 | 0.0244 | 97.3 | 97.6 | 80.0-120 | | | 0.340 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0242 | 0.0246 | 97.0 | 98.4 | 72.0-123 | | | 1.45 | 20 |
| Dibromomethane | 0.0250 | 0.0227 | 0.0219 | 91.0 | 87.4 | 79.0-120 | | | 3.96 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0242 | 0.0246 | 96.6 | 98.2 | 77.0-120 | | | 1.65 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0170 | 0.0164 | 67.8 | 65.6 | 49.0-155 | | | 3.33 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0235 | 0.0211 | 93.9 | 84.5 | 68.0-126 | | | 10.6 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0235 | 0.0238 | 94.2 | 95.4 | 70.0-128 | | | 1.24 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0248 | 0.0240 | 99.3 | 96.0 | 69.0-128 | | | 3.43 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0229 | 0.0230 | 91.7 | 92.2 | 63.0-131 | | | 0.530 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0238 | 0.0238 | 95.2 | 95.3 | 74.0-123 | | | 0.100 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0245 | 0.0243 | 97.9 | 97.4 | 72.0-122 | | | 0.560 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0239 | 0.0234 | 95.8 | 93.5 | 75.0-126 | | | 2.38 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0233 | 0.0232 | 93.1 | 92.9 | 72.0-130 | | | 0.230 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0287 | 0.0291 | 115 | 116 | 80.0-125 | | | 1.24 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0258 | 0.0251 | 103 | 100 | 80.0-121 | | | 2.52 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0276 | 0.0277 | 110 | 111 | 75.0-129 | | | 0.390 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0195 | 0.0196 | 77.8 | 78.4 | 60.0-129 | | | 0.680 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0204 | 0.0197 | 81.7 | 79.0 | 62.0-133 | | | 3.34 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248365-1 09/06/17 22:07 • (LCSD) R3248365-2 09/06/17 22:27

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0255 | 0.0261 | 102 | 104 | 77.0-120 | | | 2.31 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0266 | 0.0274 | 106 | 110 | 68.0-128 | | | 2.96 | 20 |
| 2-Hexanone | 0.125 | 0.0993 | 0.0880 | 79.4 | 70.4 | 61.0-143 | | | 12.1 | 20 |
| n-Hexane | 0.0250 | 0.0199 | 0.0196 | 79.6 | 78.6 | 57.0-125 | | | 1.35 | 20 |
| Iodomethane | 0.125 | 0.123 | 0.121 | 98.6 | 97.1 | 67.0-132 | | | 1.52 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0805 | 0.0677 | 64.4 | 54.2 | 37.0-159 | | | 17.2 | 20 |
| Isopropylbenzene | 0.0250 | 0.0243 | 0.0248 | 97.4 | 99.0 | 75.0-120 | | | 1.66 | 20 |
| Methylene Chloride | 0.0250 | 0.0224 | 0.0221 | 89.4 | 88.6 | 67.0-123 | | | 0.920 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0262 | 0.0265 | 105 | 106 | 74.0-125 | | | 1.33 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.104 | 0.0951 | 82.9 | 76.1 | 60.0-144 | | | 8.56 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0207 | 0.0194 | 82.7 | 77.7 | 66.0-125 | | | 6.34 | 20 |
| Naphthalene | 0.0250 | 0.0251 | 0.0244 | 101 | 97.4 | 64.0-125 | | | 3.16 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0238 | 0.0220 | 95.4 | 88.0 | 73.0-120 | | | 8.06 | 20 |
| n-Propylbenzene | 0.0250 | 0.0250 | 0.0252 | 100 | 101 | 78.0-120 | | | 0.900 | 20 |
| Tetrachloroethene | 0.0250 | 0.0282 | 0.0291 | 113 | 116 | 70.0-127 | | | 3.05 | 20 |
| Styrene | 0.0250 | 0.0274 | 0.0277 | 110 | 111 | 78.0-124 | | | 1.12 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0234 | 0.0235 | 93.7 | 93.9 | 74.0-124 | | | 0.250 | 20 |
| Toluene | 0.0250 | 0.0248 | 0.0255 | 99.2 | 102 | 77.0-120 | | | 2.67 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0225 | 0.0223 | 90.2 | 89.4 | 69.0-125 | | | 0.900 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0253 | 0.0253 | 101 | 101 | 78.0-120 | | | 0.000 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0211 | 0.0211 | 84.5 | 84.2 | 64.0-135 | | | 0.350 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0266 | 0.0265 | 106 | 106 | 68.0-126 | | | 0.240 | 20 |
| Trichloroethene | 0.0250 | 0.0240 | 0.0240 | 96.0 | 95.9 | 79.0-120 | | | 0.130 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0241 | 0.0251 | 96.5 | 101 | 70.0-127 | | | 4.18 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0221 | 0.0217 | 88.6 | 86.7 | 59.0-136 | | | 2.17 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0237 | 0.0222 | 94.8 | 88.9 | 73.0-124 | | | 6.37 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0226 | 0.0227 | 90.3 | 90.8 | 76.0-120 | | | 0.580 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0242 | 0.0242 | 96.7 | 96.7 | 75.0-120 | | | 0.0200 | 20 |
| Vinyl chloride | 0.0250 | 0.0204 | 0.0206 | 81.5 | 82.4 | 63.0-134 | | | 1.07 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0250 | 0.0254 | 100 | 102 | 75.0-120 | | | 1.61 | 20 |
| Xylenes, Total | 0.0750 | 0.0764 | 0.0774 | 102 | 103 | 77.0-120 | | | 1.30 | 20 |
| Vinyl acetate | 0.125 | 0.119 | 0.112 | 95.5 | 89.2 | 58.0-156 | | | 6.79 | 20 |
| *(S) Toluene-d8* | | | | *113* | *115* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *102* | *103* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *104* | *104* | *64.0-132* | | | | |

## L934152-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L934152-01 09/07/17 06:38 • (MS) R3248365-4 09/07/17 07:48 • (MSD) R3248365-5 09/07/17 08:08

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | ND | 0.466 | 0.565 | 14.9 | 18.1 | 25 | 10.0-160 | | | 19.3 | 36 |
| Benzene | 0.0250 | ND | 0.220 | 0.267 | 35.2 | 42.7 | 25 | 13.0-146 | | | 19.3 | 27 |
| Bromodichloromethane | 0.0250 | ND | 0.227 | 0.268 | 36.3 | 42.9 | 25 | 15.0-142 | | | 16.5 | 28 |
| Acrylonitrile | 0.125 | ND | 0.873 | 1.10 | 27.9 | 35.3 | 25 | 14.0-160 | | | 23.2 | 33 |
| Bromoform | 0.0250 | ND | 0.220 | 0.259 | 35.2 | 41.4 | 25 | 10.0-147 | | | 16.2 | 31 |
| Bromobenzene | 0.0250 | ND | 0.225 | 0.269 | 36.0 | 43.0 | 25 | 10.0-149 | | | 17.7 | 33 |
| Bromomethane | 0.0250 | ND | 0.0961 | 0.112 | 15.4 | 17.9 | 25 | 10.0-160 | | | 15.3 | 32 |
| Bromochloromethane | 0.0250 | ND | 0.242 | 0.298 | 38.8 | 47.7 | 25 | 24.0-146 | | | 20.8 | 27 |
| Carbon tetrachloride | 0.0250 | ND | 0.200 | 0.248 | 31.9 | 39.6 | 25 | 13.0-140 | | | 21.4 | 30 |
| n-Butylbenzene | 0.0250 | ND | 0.237 | 0.290 | 37.9 | 46.5 | 25 | 10.0-154 | | | 20.2 | 37 |
| Chlorobenzene | 0.0250 | ND | 0.240 | 0.284 | 38.5 | 45.4 | 25 | 10.0-149 | | | 16.5 | 31 |
| sec-Butylbenzene | 0.0250 | ND | 0.238 | 0.291 | 38.1 | 46.6 | 25 | 10.0-151 | | | 19.9 | 36 |
| Chlorodibromomethane | 0.0250 | ND | 0.220 | 0.268 | 35.2 | 42.9 | 25 | 12.0-147 | | | 19.8 | 29 |
| tert-Butylbenzene | 0.0250 | ND | 0.225 | 0.277 | 36.0 | 44.4 | 25 | 10.0-152 | | | 20.7 | 35 |
| Carbon disulfide | 0.0250 | ND | 0.217 | 0.268 | 34.7 | 43.0 | 25 | 10.0-141 | | | 21.2 | 30 |
| Chloroethane | 0.0250 | ND | 0.0469 | 0.0550 | 7.50 | 8.80 | 25 | 10.0-159 | J6 | J6 | 15.9 | 33 |
| Chloroform | 0.0250 | ND | 0.226 | 0.283 | 36.2 | 45.3 | 25 | 18.0-148 | | | 22.4 | 28 |
| Chloromethane | 0.0250 | ND | 0.183 | 0.220 | 29.2 | 35.3 | 25 | 10.0-146 | | | 18.8 | 29 |
| 2-Chlorotoluene | 0.0250 | ND | 0.233 | 0.280 | 37.3 | 44.8 | 25 | 10.0-151 | | | 18.3 | 35 |
| 1,2-Dichlorobenzene | 0.0250 | ND | 0.231 | 0.280 | 36.9 | 44.8 | 25 | 10.0-153 | | | 19.3 | 34 |
| 4-Chlorotoluene | 0.0250 | ND | 0.224 | 0.270 | 35.9 | 43.2 | 25 | 10.0-150 | | | 18.5 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | ND | 0.209 | 0.264 | 33.5 | 42.2 | 25 | 10.0-149 | | | 22.9 | 34 |
| 1,3-Dichlorobenzene | 0.0250 | ND | 0.224 | 0.271 | 35.8 | 43.4 | 25 | 10.0-150 | | | 19.3 | 35 |
| 1,2-Dibromoethane | 0.0250 | ND | 0.245 | 0.283 | 39.1 | 45.4 | 25 | 14.0-145 | | | 14.7 | 28 |
| 1,4-Dichlorobenzene | 0.0250 | ND | 0.224 | 0.273 | 35.9 | 43.7 | 25 | 10.0-148 | | | 19.6 | 34 |
| Dibromomethane | 0.0250 | ND | 0.206 | 0.248 | 33.0 | 39.8 | 25 | 18.0-144 | | | 18.6 | 27 |
| Dichlorodifluoromethane | 0.0250 | ND | 0.204 | 0.232 | 32.7 | 37.2 | 25 | 10.0-160 | | | 12.8 | 30 |
| 1,1-Dichloroethane | 0.0250 | ND | 0.228 | 0.281 | 36.4 | 45.0 | 25 | 19.0-148 | | | 20.9 | 28 |
| 1,2-Dichloroethane | 0.0250 | ND | 0.234 | 0.282 | 37.4 | 45.1 | 25 | 17.0-147 | | | 18.6 | 27 |
| trans-1,4-Dichloro-2-butene | 0.0250 | ND | 0.190 | 0.217 | 30.4 | 34.7 | 25 | 10.0-160 | | | 13.3 | 40 |
| 1,1-Dichloroethene | 0.0250 | ND | 0.245 | 0.306 | 39.2 | 49.0 | 25 | 10.0-150 | | | 22.2 | 31 |
| cis-1,2-Dichloroethene | 0.0250 | ND | 0.224 | 0.284 | 35.8 | 45.4 | 25 | 16.0-145 | | | 23.6 | 28 |
| trans-1,2-Dichloroethene | 0.0250 | ND | 0.224 | 0.288 | 35.8 | 46.1 | 25 | 11.0-142 | | | 25.2 | 29 |
| 1,2-Dichloropropane | 0.0250 | ND | 0.222 | 0.255 | 35.5 | 40.9 | 25 | 17.0-148 | | | 14.0 | 28 |
| cis-1,3-Dichloropropene | 0.0250 | ND | 0.253 | 0.300 | 40.4 | 48.0 | 25 | 13.0-150 | | | 17.1 | 28 |
| trans-1,3-Dichloropropene | 0.0250 | ND | 0.242 | 0.281 | 38.8 | 45.0 | 25 | 10.0-152 | | | 14.9 | 29 |
| 1,1-Dichloropropene | 0.0250 | ND | 0.214 | 0.272 | 34.3 | 43.5 | 25 | 10.0-150 | | | 23.7 | 30 |
| 1,3-Dichloropropane | 0.0250 | ND | 0.235 | 0.267 | 37.6 | 42.7 | 25 | 16.0-148 | | | 12.8 | 27 |
| Di-isopropyl ether | 0.0250 | ND | 0.197 | 0.244 | 31.5 | 39.0 | 25 | 16.0-149 | | | 21.1 | 28 |
| Ethylbenzene | 0.0250 | ND | 0.237 | 0.286 | 38.0 | 45.8 | 25 | 10.0-147 | | | 18.6 | 31 |

## L934152-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L934152-01 09/07/17 06:38 • (MS) R3248365-4 09/07/17 07:48 • (MSD) R3248365-5 09/07/17 08:08

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,2-Dichloropropane | 0.0250 | ND | 0.191 | 0.233 | 30.5 | 37.2 | 25 | 16.0-143 | | | 19.7 | 30 |
| Hexachloro-1,3-butadiene | 0.0250 | ND | 0.276 | 0.333 | 44.2 | 53.3 | 25 | 10.0-154 | | | 18.6 | 40 |
| 2-Hexanone | 0.125 | ND | 0.762 | 0.899 | 24.4 | 28.8 | 25 | 12.0-158 | | | 16.5 | 30 |
| 2-Butanone (MEK) | 0.125 | ND | 0.627 | 0.791 | 20.1 | 25.3 | 25 | 10.0-160 | | | 23.0 | 33 |
| n-Hexane | 0.0250 | ND | 0.177 | 0.217 | 28.3 | 34.7 | 25 | 10.0-140 | | | 20.2 | 34 |
| Iodomethane | 0.125 | ND | 1.24 | 1.53 | 39.5 | 48.9 | 25 | 10.0-157 | | | 21.1 | 34 |
| Methylene Chloride | 0.0250 | ND | 0.221 | 0.268 | 35.4 | 42.9 | 25 | 16.0-139 | | | 19.2 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | ND | 0.854 | 1.03 | 27.3 | 33.1 | 25 | 12.0-160 | | | 19.1 | 32 |
| Isopropylbenzene | 0.0250 | ND | 0.225 | 0.276 | 36.0 | 44.1 | 25 | 10.0-147 | | | 20.4 | 33 |
| Methyl tert-butyl ether | 0.0250 | ND | 0.195 | 0.244 | 31.1 | 39.0 | 25 | 21.0-145 | | | 22.4 | 29 |
| p-Isopropyltoluene | 0.0250 | ND | 0.250 | 0.305 | 40.0 | 48.8 | 25 | 10.0-156 | | | 19.9 | 37 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | ND | 0.209 | 0.259 | 33.4 | 41.4 | 25 | 10.0-155 | | | 21.3 | 31 |
| Naphthalene | 0.0250 | ND | 0.248 | 0.305 | 39.7 | 48.8 | 25 | 10.0-153 | | | 20.6 | 36 |
| Tetrachloroethene | 0.0250 | ND | 0.255 | 0.297 | 39.6 | 46.3 | 25 | 10.0-144 | | | 15.1 | 32 |
| n-Propylbenzene | 0.0250 | ND | 0.232 | 0.285 | 37.1 | 45.5 | 25 | 10.0-151 | | | 20.4 | 34 |
| Toluene | 0.0250 | ND | 0.240 | 0.282 | 35.3 | 41.9 | 25 | 10.0-144 | | | 15.9 | 28 |
| Styrene | 0.0250 | ND | 0.252 | 0.305 | 40.3 | 48.7 | 25 | 10.0-155 | | | 19.0 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | ND | 0.218 | 0.262 | 34.8 | 41.9 | 25 | 10.0-147 | | | 18.3 | 30 |
| 1,1,1-Trichloroethane | 0.0250 | ND | 0.212 | 0.268 | 34.0 | 42.9 | 25 | 18.0-145 | | | 23.2 | 29 |
| 1,1,2-Trichloroethane | 0.0250 | ND | 0.221 | 0.266 | 35.4 | 42.6 | 25 | 12.0-151 | | | 18.5 | 28 |
| Trichloroethene | 0.0250 | ND | 0.217 | 0.261 | 34.8 | 41.7 | 25 | 11.0-148 | | | 18.2 | 29 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | ND | 0.231 | 0.280 | 36.9 | 44.9 | 25 | 10.0-153 | | | 19.4 | 33 |
| Trichlorofluoromethane | 0.0250 | ND | 0.142 | 0.151 | 22.8 | 24.1 | 25 | 10.0-157 | | | 5.66 | 34 |
| 1,2,3-Trichlorobenzene | 0.0250 | ND | 0.269 | 0.331 | 43.1 | 52.9 | 25 | 10.0-153 | | | 20.4 | 40 |
| 1,2,4-Trichlorobenzene | 0.0250 | ND | 0.251 | 0.309 | 40.2 | 49.4 | 25 | 10.0-156 | | | 20.5 | 40 |
| 1,2,3-Trichloropropane | 0.0250 | ND | 0.207 | 0.255 | 33.1 | 40.8 | 25 | 10.0-154 | | | 20.7 | 32 |
| Vinyl chloride | 0.0250 | ND | 0.203 | 0.250 | 32.4 | 40.0 | 25 | 10.0-150 | | | 20.9 | 29 |
| 1,2,3-Trimethylbenzene | 0.0250 | ND | 0.230 | 0.278 | 34.8 | 42.5 | 25 | 10.0-150 | | | 18.9 | 33 |
| Xylenes, Total | 0.0750 | ND | 0.762 | 0.887 | 38.0 | 44.7 | 25 | 10.0-150 | | | 15.2 | 31 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0346 | 0.268 | 0.317 | 37.4 | 45.3 | 25 | 10.0-151 | | | 16.8 | 34 |
| 1,3,5-Trimethylbenzene | 0.0250 | ND | 0.246 | 0.292 | 37.9 | 45.3 | 25 | 10.0-150 | | | 17.2 | 33 |
| Vinyl acetate | 0.125 | ND | 1.02 | 1.25 | 32.7 | 40.0 | 25 | 10.0-160 | | | 20.1 | 40 |
| *(S) Toluene-d8* | | | | | *115* | *111* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *104* | *110* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *106* | *107* | | *64.0-132* | | | | |

**Sample Narrative:**

OS: Stir bars received improperly prepped.

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |

# ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.



## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

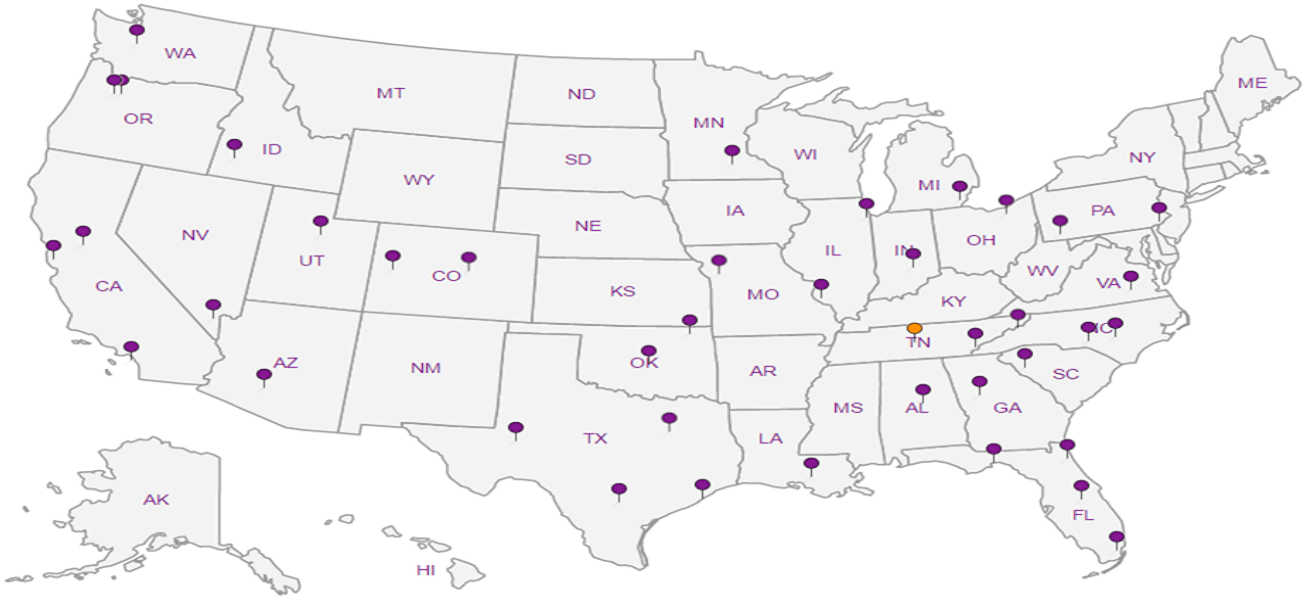
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: **Bill Haldeman**

Email To: **bhaldeman@pesenv.com**

Project Description: **American Linen Project**

City/State Collected: SEATTLE, WA

Phone: **206-529-3980**
Fax: **206-529-3985**

Client Project # 1413.001.02.602

Lab Project # **PESENVSWA-ALP**

Collected by (print): SHANNON McKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-213-15 | GRAB | SS | 15 | 9/5/17 | 1050 | 4 | | | X | X | | | -01 |
| B-213-21.5 | | ~~SS~~ GW | 21.5 | | 1120 | 4 | | | X | X | | | -02 |
| B-213-25 | | ~~SS~~ GW | 25 | | 1135 | 4 | | | X | X | | HOLD | |
| B-213-35 | | ~~SS~~ GW | 35 | | 1150 | 4 | | | X | X | | | -03 |
| B-213-45 | | SS | 45 | | 1255 | 4 | | | X | X | | | -04 |
| B-213-55 | | SS | 55 | | 1405 | 4 | | | X | X | | | -05 |
| B-217-15 | | SS | 15 | | 1430 | 4 | | | X | X | | | -06 |
| B-217-25 | | SS | 25 | | 1500 | 4 | | | X | X | | | -07 |
| B-217-35 | | SS | 35 | | 1515 | 4 | | | X | X | | | -08 |
| B-213-65 | | SS | 65 | | 1530 | 4 | | | X | X | | | -09 |

Analysis / Container / Preservative

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7474 0921 0263

Chain of Custody Page 1 of 2

ESC LABORATORY SCIENCES
a subsidiary of Accutest

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 934130

D093

Acctnum: **PESENVSWA**
Template: **T126584**
Prelogin: **P613271**
TSR: **110 - Brian Ford**
PB:
Shipped Via: **FedEx Ground**

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 9/5/17 | 1645 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| | | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | Chris Ward |

Trip Blank Received: Yes / No (No)
HCL / MeOH
TBR

Temp: .9 °C Bottles Received: 52

Date: 9/6/17 Time: 0845

If preservation required by Login: Date/Time

09-001

Condition: NCF / OK

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-213-65 | GRAB | SS | 65 | 9/5/17 | 1545 | ~~4~~ 5 | ~~X~~ | | X | X | | | -10 |
| B-217-45 | ↓ | SS | 45 | ↓ | 1540 | ~~4~~ 5 | ~~X~~ | | X | X | | HOLD | |
| B-217-42 | ↓ | SS | 42 | ↓ | 1550 | ~~4~~ 5 | ~~X~~ | | X | X | | | -11 |
| B- | | SS | | | | 5 | X | | X | X | | | ~~-12~~ |
| B- | | SS | | | | 5 | X | | X | X | | | |
| B- | | SS | | | | 5 | X | | X | X | | | |
| B- | | SS | | | | 5 | X | | X | X | | | |
| B- | | GW | | | | 6 | | X | | | X | | |
| B- | | GW | | | | 6 | | X | | | X | | |
| B- | | GW | | | | 6 | | X | | | X | | |

Chain of Custody Page 2 of 2

ESC LABORATORY SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: PESENVSWA
Template: T126584
Prelogin: P613271
TSR: 110 - Brian Ford
PB:

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # Sac

Sample Receipt Checklist
COC Seal Present/Intact: __NP X N
COC Signed/Accurate: X __N
Bottles arrive intact: X __N
Correct bottles used: X __N
Sufficient volume sent: X __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| | 9/5/17 | 1645 | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 1.9 °C Bottles Received: 52 |
| | | | | If preservation required by Login: Date/Time |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 9/6/17 Time: 0845 |
| | | | | Hold: |

Condition: NCF / OK

## Brian Ford

**From:** Bill Haldeman <bhaldeman@pesenv.com>
**Sent:** Thursday, September 07, 2017 6:11 PM
**To:** Brian Ford
**Subject:** RE: ESC Lab Sciences Login for 1413.001.02.602 American Linen Project L934130

Brian, we mistakenly labeled the depth for sample L934130-10 as 65 feet. It should be 75 feet, resulting in a sample designation of B-213-75. Can you make that change? I apologize for our error. Thanks! -Bill

-----Original Message-----
From: Brian Ford [mailto:bford@esclabsciences.com]
Sent: Wednesday, September 06, 2017 4:55 PM
To: Bill Haldeman <bhaldeman@pesenv.com>
Subject: ESC Lab Sciences Login for 1413.001.02.602 American Linen Project L934130

Thank you for choosing ESC Lab Sciences! Please find enclosed PDF files containing your laboratory login confirmation and chain of custody.

ESC is leading the laboratory industry with our On-line Data Management tools. Please contact your Technical Service Representative to learn how to create historical Excel tables or access data in real time using powerful and intuitive software that is only available at http://www.esclabsciences.com.

Visit ESC's secure data management web site - myESC - for all your reporting and data management needs at https://linkprotect.cudasvc.com/url?a=http://www.esclabsciences.com/login&c=E,1,FAywHFexOjKfrqksQ5pC-l1YASCB1A9uKOCqYivhTK1JboTO8oBwDBrG0tk4ChMxswB6O85j13regSG2SiR6nzp2x__qInjze5TemJIrqWEyDoE5lUQ,&typo=1

ESC ... "Your Lab of Choice"

Brian Ford
Technical Service Representative
615-773-9772

ESC Lab Sciences
12065 Lebanon Rd.
Mt. Juliet, TN 37122

Notice: This communication and any attached files may contain privileged or other confidential information. If you have received this in error, please contact the sender immediately via reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.

# MEMORANDUM

**TO:** Project File **DATE:** October 12, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** September 5, 2017 – Soil Samples

**LAB:** ESC Lab ID L934130

---

Thirteen (13) soil samples were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 5, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Two soils were placed on hold. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C; and
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L934130. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L934130 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested with the following discussion:

- Chain of custody sample B-213-**65** (collected on September 5, 2017 at 15:45) was corrected to read B-213-**75** per PES's request.

## Sample Collection and Preservation

Samples were collected on September 5, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 0.8 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, acrylonitrile, chloromethane, dichlorodifluoromethane, 2-hexanone, n-hexane, 2-butanone (MEK), and 4-methyl-2-pentanone (MIBK) associated with analytical batch WG1017434 (analyzed on September 7, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs).

*Total Solids by SM 2540 G 2011:*
Laboratory method blank was included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was not collected.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate samples were not collected. Refer to spike data for precision and accuracy data.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on two non-client samples, and on client sample B-213-55. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses with the following exception:

- Surrogate 4-bromofluorobenzene percent recovery for sample B-213-21.5 is above laboratory acceptance criteria. **For sample B-213-21.5 all detected halogenated benzene results associated with the surrogate are estimated and qualified (J) due to the elevated surrogate recovery.**

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils with the following exception:

- LCS/LCSD (Batch WG1017434) RPD result for acetone is above laboratory acceptance criteria (20%) and qualified by the laboratory (J3). No action was taken on this basis as MS/MSD percent recovery results are recovered wide but are within control limits.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on a non-client sample within one of the analytical batches. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for soils with the following exceptions:

- MS/MSD (Batch WG1017434) recoveries for chloroethane are low, below laboratory acceptance criteria, and qualified (J6) by the laboratory to indicate matrix interference. No action is taken since this spike was performed on a non-client sample within the analytical batch and LCS/LCSD results for chloroethane are acceptable.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.3 | | 1 | 09/11/2017 09:58 | WG1018605 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0116 | 0.0579 | 1 | 09/07/2017 01:02 | WG1017434 |
| Acrylonitrile | U UJ | J0 | 0.00207 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Bromobenzene | U | | 0.000329 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Bromochloromethane | U | | 0.000452 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| Bromoform | U | | 0.000491 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Bromomethane | U | | 0.00155 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Carbon disulfide | U | | 0.000256 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Carbon tetrachloride | U | | 0.000380 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Chlorodibromomethane | U | | 0.000432 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Chloroethane | U | | 0.00110 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| Chloroform | U | | 0.000265 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| Chloromethane | U UJ | J0 | 0.000435 | 0.00290 | 1 | 09/07/2017 01:02 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000397 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000826 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000351 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000272 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000306 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000415 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000367 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000902 | 0.00290 | 1 | 09/07/2017 01:02 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000323 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Di-isopropyl ether | U | | 0.000287 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Ethylbenzene | U | | 0.000344 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000396 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 2-Hexanone | U UJ | J0 | 0.00159 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |
| n-Hexane | U UJ | J0 | 0.000336 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Iodomethane | U | | 0.00293 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00542 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Methylene Chloride | U | | 0.00116 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00218 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Naphthalene | U | | 0.00116 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000423 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000423 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Tetrachloroethene | 0.00289 | | 0.000320 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Toluene | U | | 0.000503 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Trichloroethene | U | | 0.000323 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00579 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000859 | 0.00290 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2,4-Trimethylbenzene | 0.000365 J | J | 0.000245 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Vinyl chloride | U | | 0.000337 | 0.00116 | 1 | 09/07/2017 01:02 | WG1017434 |
| Xylenes, Total | U | | 0.000809 | 0.00348 | 1 | 09/07/2017 01:02 | WG1017434 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *09/07/2017 01:02* | WG1017434 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/07/2017 01:02* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/07/2017 01:02* | WG1017434 |

JC 10/12/2017

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 96.0 | | 1 | 09/11/2017 09:58 | WG1018605 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0143 J | J J0 J3 | 0.0104 | 0.0521 | 1 | 09/07/2017 01:22 | WG1017434 |
| Acrylonitrile | U UJ | J0 | 0.00187 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Benzene | 0.000385 J | J | 0.000281 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Bromobenzene | U | | 0.000296 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Bromodichloromethane | U | | 0.000265 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Bromochloromethane | U | | 0.000406 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| Bromoform | U | | 0.000442 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Bromomethane | U | | 0.00140 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| n-Butylbenzene | 0.00519 J | | 0.000269 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| sec-Butylbenzene | 0.00362 J | | 0.000209 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| tert-Butylbenzene | U | | 0.000215 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Carbon disulfide | 0.000932 J | J | 0.000230 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Carbon tetrachloride | U | | 0.000342 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Chlorobenzene | U | | 0.000221 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Chlorodibromomethane | U | | 0.000389 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Chloroethane | U | | 0.000986 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| Chloroform | U | | 0.000239 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| Chloromethane | U UJ | J0 | 0.000391 | 0.00261 | 1 | 09/07/2017 01:22 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000314 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000250 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00109 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000357 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Dibromomethane | U | | 0.000398 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000318 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000249 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000236 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000743 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000207 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000276 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000316 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000245 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000275 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000373 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000330 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000216 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000273 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000278 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000811 | 0.00261 | 1 | 09/07/2017 01:22 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000291 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Di-isopropyl ether | U | | 0.000258 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Ethylbenzene | 0.000991 J | J | 0.000309 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000356 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 2-Hexanone | U UJ | J0 | 0.00143 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |
| n-Hexane | 0.0375 J | J0 | 0.000302 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Iodomethane | U | | 0.00264 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Isopropylbenzene | 0.00198 J | | 0.000253 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| p-Isopropyltoluene | 0.00445 J | | 0.000213 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 2-Butanone (MEK) | 0.00736 J | J J0 | 0.00488 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Methylene Chloride | U | | 0.00104 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00196 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000221 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Naphthalene | 0.0239 J | | 0.00104 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| n-Propylbenzene | 0.00457 J | | 0.000215 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Styrene | U | | 0.000244 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000275 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000380 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000380 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Tetrachloroethene | 0.00263 | | 0.000288 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Toluene | 0.000540 J | J | 0.000452 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000319 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000404 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000298 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000289 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Trichloroethene | U | | 0.000291 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000398 | 0.00521 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000772 | 0.00261 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2,4-Trimethylbenzene | 0.0661 J | | 0.000220 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,2,3-Trimethylbenzene | 0.0392 J | | 0.000299 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| 1,3,5-Trimethylbenzene | 0.0155 J | | 0.000277 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Vinyl acetate | U | | 0.00249 | 0.0104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Vinyl chloride | U | | 0.000303 | 0.00104 | 1 | 09/07/2017 01:22 | WG1017434 |
| Xylenes, Total | 0.0126 J | | 0.000727 | 0.00313 | 1 | 09/07/2017 01:22 | WG1017434 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/07/2017 01:22* | WG1017434 |
| *(S) Dibromofluoromethane* | *115* | | | *74.0-131* | | *09/07/2017 01:22* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *152* | J1 | | *64.0-132* | | *09/07/2017 01:22* | WG1017434 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.4 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0108 | 0.0541 | 1 | 09/07/2017 01:42 | WG1017434 |
| Acrylonitrile | U UJ | J0 | 0.00194 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Benzene | U | | 0.000292 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Bromobenzene | U | | 0.000307 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Bromochloromethane | U | | 0.000422 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| Bromoform | U | | 0.000459 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Bromomethane | U | | 0.00145 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| n-Butylbenzene | U | | 0.000279 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| sec-Butylbenzene | U | | 0.000218 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Carbon disulfide | U | | 0.000239 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Carbon tetrachloride | U | | 0.000355 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Chlorobenzene | U | | 0.000230 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Chlorodibromomethane | U | | 0.000404 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Chloroethane | U | | 0.00102 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| Chloroform | U | | 0.000248 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| Chloromethane | U UJ | J0 | 0.000406 | 0.00271 | 1 | 09/07/2017 01:42 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000326 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000260 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000371 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Dibromomethane | U | | 0.000414 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000259 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000245 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000772 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000215 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000287 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000328 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000254 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000286 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000388 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000343 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000284 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000289 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000842 | 0.00271 | 1 | 09/07/2017 01:42 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000302 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Di-isopropyl ether | U | | 0.000268 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Ethylbenzene | U | | 0.000322 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000370 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 2-Hexanone | U UJ | J0 | 0.00148 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |
| n-Hexane | U UJ | J0 | 0.000314 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Iodomethane | U | | 0.00274 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Isopropylbenzene | U | | 0.000263 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00507 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Methylene Chloride | U | | 0.00108 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00204 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000230 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Naphthalene | U | | 0.00108 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Styrene | U | | 0.000253 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000286 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000395 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000395 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Tetrachloroethene | U | | 0.000299 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Toluene | U | | 0.000470 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000420 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000310 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000300 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Trichloroethene | U | | 0.000302 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000414 | 0.00541 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000802 | 0.00271 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000228 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000311 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Vinyl acetate | U | | 0.00259 | 0.0108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Vinyl chloride | U | | 0.000315 | 0.00108 | 1 | 09/07/2017 01:42 | WG1017434 |
| Xylenes, Total | U | | 0.000756 | 0.00325 | 1 | 09/07/2017 01:42 | WG1017434 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/07/2017 01:42* | WG1017434 |
| *(S) Dibromofluoromethane* | *113* | | | *74.0-131* | | *09/07/2017 01:42* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/07/2017 01:42* | WG1017434 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.2 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0111 | 0.0554 | 1 | 09/07/2017 02:02 | WG1017434 |
| Acrylonitrile | U UJ | J0 | 0.00198 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Benzene | U | | 0.000299 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Bromobenzene | U | | 0.000315 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Bromodichloromethane | U | | 0.000282 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Bromochloromethane | U | | 0.000432 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| Bromoform | U | | 0.000470 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Bromomethane | U | | 0.00149 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| n-Butylbenzene | U | | 0.000286 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| tert-Butylbenzene | U | | 0.000228 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Carbon disulfide | U | | 0.000245 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Carbon tetrachloride | U | | 0.000364 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Chlorobenzene | U | | 0.000235 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Chlorodibromomethane | U | | 0.000413 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Chloroethane | U | | 0.00105 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| Chloroform | U | | 0.000254 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| Chloromethane | U UJ | J0 | 0.000416 | 0.00277 | 1 | 09/07/2017 02:02 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000334 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000266 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000380 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Dibromomethane | U | | 0.000423 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000338 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000265 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000251 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000790 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000221 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000294 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000336 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000260 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000293 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000397 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000351 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000229 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000290 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000296 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000862 | 0.00277 | 1 | 09/07/2017 02:02 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000309 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Di-isopropyl ether | U | | 0.000275 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Ethylbenzene | U | | 0.000329 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000379 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 2-Hexanone | U UJ | J0 | 0.00152 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |
| n-Hexane | U UJ | J0 | 0.000321 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Iodomethane | U | | 0.00280 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Isopropylbenzene | U | | 0.000269 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000226 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00519 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Methylene Chloride | U | | 0.00111 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00208 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000235 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Naphthalene | U | | 0.00111 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| n-Propylbenzene | U | | 0.000228 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Styrene | U | | 0.000259 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000293 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000405 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000405 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Tetrachloroethene | U | | 0.000306 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Toluene | U | | 0.000481 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000430 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000317 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000307 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Trichloroethene | U | | 0.000309 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000423 | 0.00554 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000821 | 0.00277 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000234 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000318 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000295 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Vinyl acetate | U | | 0.00265 | 0.0111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Vinyl chloride | U | | 0.000323 | 0.00111 | 1 | 09/07/2017 02:02 | WG1017434 |
| Xylenes, Total | U | | 0.000774 | 0.00333 | 1 | 09/07/2017 02:02 | WG1017434 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *09/07/2017 02:02* | WG1017434 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/07/2017 02:02* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *09/07/2017 02:02* | WG1017434 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.9 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0109 | 0.0544 | 1 | 09/07/2017 02:22 | WG1017434 |
| Acrylonitrile | U UJ | J0 | 0.00195 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Bromobenzene | U | | 0.000309 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Bromochloromethane | U | | 0.000425 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Bromomethane | U | | 0.00146 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Carbon disulfide | 0.000834 J | J | 0.000241 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Carbon tetrachloride | U | | 0.000357 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Chlorodibromomethane | U | | 0.000406 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Chloroethane | U | | 0.00103 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| Chloroform | U | | 0.000249 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| Chloromethane | U UJ | J0 | 0.000408 | 0.00272 | 1 | 09/07/2017 02:22 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000373 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Dibromomethane | U | | 0.000416 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000776 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000256 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000287 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000345 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000285 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000847 | 0.00272 | 1 | 09/07/2017 02:22 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Di-isopropyl ether | U | | 0.000270 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Ethylbenzene | U | | 0.000323 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000372 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 2-Hexanone | U UJ | J0 | 0.00149 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |
| n-Hexane | 0.0237 J | J0 | 0.000316 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00509 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Methylene Chloride | U | | 0.00109 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00205 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Naphthalene | U | | 0.00109 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000397 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000397 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Tetrachloroethene | U | | 0.000300 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Toluene | U | | 0.000472 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000422 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000311 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Trichloroethene | U | | 0.000304 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000416 | 0.00544 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000807 | 0.00272 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000312 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Vinyl chloride | U | | 0.000317 | 0.00109 | 1 | 09/07/2017 02:22 | WG1017434 |
| Xylenes, Total | U | | 0.000760 | 0.00327 | 1 | 09/07/2017 02:22 | WG1017434 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/07/2017 02:22* | WG1017434 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *09/07/2017 02:22* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/07/2017 02:22* | WG1017434 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.1 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0113 | 0.0567 | 1 | 09/07/2017 02:42 | WG1017434 |
| Acrylonitrile | U UJ | J0 | 0.00203 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Benzene | U | | 0.000306 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Bromobenzene | U | | 0.000322 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Bromodichloromethane | U | | 0.000288 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Bromochloromethane | U | | 0.000443 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| Bromoform | U | | 0.000481 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Bromomethane | U | | 0.00152 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| n-Butylbenzene | U | | 0.000293 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| sec-Butylbenzene | U | | 0.000228 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| tert-Butylbenzene | U | | 0.000234 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Carbon disulfide | 0.000952 J | J | 0.000251 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Carbon tetrachloride | U | | 0.000372 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Chlorobenzene | U | | 0.000241 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Chlorodibromomethane | U | | 0.000423 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Chloroethane | U | | 0.00107 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| Chloroform | U | | 0.000260 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| Chloromethane | U UJ | J0 | 0.000426 | 0.00284 | 1 | 09/07/2017 02:42 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000342 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000272 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000389 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Dibromomethane | U | | 0.000434 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000271 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000809 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000226 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000301 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000344 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000267 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000300 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000406 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000360 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000235 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000297 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000303 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000883 | 0.00284 | 1 | 09/07/2017 02:42 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000317 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Di-isopropyl ether | U | | 0.000281 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Ethylbenzene | U | | 0.000337 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000388 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 2-Hexanone | U UJ | J0 | 0.00155 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |
| n-Hexane | 0.000359 J | J J0 | 0.000329 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Iodomethane | U | | 0.00287 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Isopropylbenzene | U | | 0.000276 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00531 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Methylene Chloride | U | | 0.00113 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00213 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000241 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Naphthalene | U | | 0.00113 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| n-Propylbenzene | U | | 0.000234 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Styrene | U | | 0.000266 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000300 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000414 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000414 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Tetrachloroethene | 0.0221 | | 0.000313 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Toluene | U | | 0.000493 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000347 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000440 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000325 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000314 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Trichloroethene | U | | 0.000317 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000434 | 0.00567 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000841 | 0.00284 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000239 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000326 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000302 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Vinyl acetate | U | | 0.00271 | 0.0113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Vinyl chloride | U | | 0.000330 | 0.00113 | 1 | 09/07/2017 02:42 | WG1017434 |
| Xylenes, Total | U | | 0.000792 | 0.00340 | 1 | 09/07/2017 02:42 | WG1017434 |
| *(S) Toluene-d8* | *112* | | | *80.0-120* | | *09/07/2017 02:42* | WG1017434 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/07/2017 02:42* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/07/2017 02:42* | WG1017434 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.2 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0111 | 0.0554 | 1 | 09/07/2017 03:02 | WG1017434 |
| Acrylonitrile | U UJ | J0 | 0.00198 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Benzene | U | | 0.000299 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Bromobenzene | U | | 0.000315 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Bromodichloromethane | U | | 0.000282 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Bromochloromethane | U | | 0.000432 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| Bromoform | U | | 0.000470 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Bromomethane | U | | 0.00149 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| n-Butylbenzene | U | | 0.000286 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| tert-Butylbenzene | U | | 0.000228 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Carbon disulfide | U | | 0.000245 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Carbon tetrachloride | U | | 0.000364 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Chlorobenzene | U | | 0.000235 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Chlorodibromomethane | U | | 0.000414 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Chloroethane | U | | 0.00105 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| Chloroform | U | | 0.000254 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| Chloromethane | U UJ | J0 | 0.000416 | 0.00277 | 1 | 09/07/2017 03:02 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000334 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000266 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000380 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Dibromomethane | U | | 0.000424 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000338 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000265 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000251 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000791 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000221 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000294 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000336 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| cis-1,2-Dichloroethene | 0.00105 J | J | 0.000261 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000293 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000397 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000351 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000230 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000290 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000296 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000863 | 0.00277 | 1 | 09/07/2017 03:02 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000309 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Di-isopropyl ether | U | | 0.000275 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Ethylbenzene | U | | 0.000329 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000379 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 2-Hexanone | U UJ | J0 | 0.00152 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |
| n-Hexane | U UJ | J0 | 0.000322 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Iodomethane | U | | 0.00281 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Isopropylbenzene | U | | 0.000269 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000226 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00519 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Methylene Chloride | U | | 0.00111 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00208 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000235 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Naphthalene | U | | 0.00111 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| n-Propylbenzene | U | | 0.000228 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Styrene | U | | 0.000259 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000293 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000405 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000405 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Tetrachloroethene | 0.0432 | | 0.000306 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Toluene | U | | 0.000481 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000430 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000317 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000307 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Trichloroethene | 0.00122 | | 0.000309 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000424 | 0.00554 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000822 | 0.00277 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000234 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000318 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000295 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Vinyl acetate | U | | 0.00265 | 0.0111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Vinyl chloride | U | | 0.000323 | 0.00111 | 1 | 09/07/2017 03:02 | WG1017434 |
| Xylenes, Total | U | | 0.000774 | 0.00333 | 1 | 09/07/2017 03:02 | WG1017434 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *09/07/2017 03:02* | WG1017434 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *09/07/2017 03:02* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *64.0-132* | | *09/07/2017 03:02* | WG1017434 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.1 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0115 | 0.0574 | 1 | 09/07/2017 03:21 | WG1017434 |
| Acrylonitrile | U UJ | J0 | 0.00205 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Benzene | U | | 0.000310 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Bromobenzene | U | | 0.000326 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Bromochloromethane | U | | 0.000448 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| Bromoform | U | | 0.000487 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Bromomethane | U | | 0.00154 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| n-Butylbenzene | U | | 0.000296 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| tert-Butylbenzene | U | | 0.000236 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Carbon disulfide | U | | 0.000254 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Carbon tetrachloride | U | | 0.000376 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Chlorobenzene | U | | 0.000243 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Chlorodibromomethane | U | | 0.000428 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Chloroethane | U | | 0.00109 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| Chloroform | U | | 0.000263 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| Chloromethane | U UJ | J0 | 0.000430 | 0.00287 | 1 | 09/07/2017 03:21 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000345 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000275 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000394 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Dibromomethane | U | | 0.000438 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000350 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000274 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000259 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000818 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000228 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000304 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000348 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000270 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000303 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000411 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000364 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000306 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000893 | 0.00287 | 1 | 09/07/2017 03:21 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000320 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Di-isopropyl ether | U | | 0.000285 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Ethylbenzene | U | | 0.000341 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000393 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 2-Hexanone | U UJ | J0 | 0.00157 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |
| n-Hexane | 0.000409 J | J J0 | 0.000333 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Iodomethane | U | | 0.00290 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Isopropylbenzene | U | | 0.000279 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000234 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00537 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Methylene Chloride | U | | 0.00115 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00216 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000243 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Naphthalene | U | | 0.00115 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| n-Propylbenzene | U | | 0.000236 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000303 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000419 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000419 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Tetrachloroethene | U | | 0.000317 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Toluene | U | | 0.000498 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000445 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000328 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000318 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Trichloroethene | U | | 0.000320 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000438 | 0.00574 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000851 | 0.00287 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000242 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000329 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000305 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Vinyl acetate | U | | 0.00274 | 0.0115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Vinyl chloride | U | | 0.000334 | 0.00115 | 1 | 09/07/2017 03:21 | WG1017434 |
| Xylenes, Total | U | | 0.000801 | 0.00344 | 1 | 09/07/2017 03:21 | WG1017434 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *09/07/2017 03:21* | WG1017434 |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* | | *09/07/2017 03:21* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/07/2017 03:21* | WG1017434 |

JC 10/12/2017

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.9 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0110 | 0.0550 | 1 | 09/07/2017 03:41 | WG1017434 |
| Acrylonitrile | U UJ | J0 | 0.00197 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Benzene | U | | 0.000297 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Bromobenzene | U | | 0.000312 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Bromodichloromethane | U | | 0.000279 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Bromochloromethane | U | | 0.000429 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| Bromoform | U | | 0.000467 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Bromomethane | U | | 0.00147 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| n-Butylbenzene | U | | 0.000284 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Carbon disulfide | 0.00140 | | 0.000243 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Carbon tetrachloride | U | | 0.000361 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Chlorodibromomethane | U | | 0.000410 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Chloroethane | U | | 0.00104 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| Chloroform | U | | 0.000252 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| Chloromethane | U UJ | J0 | 0.000413 | 0.00275 | 1 | 09/07/2017 03:41 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000331 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000264 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000377 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Dibromomethane | U | | 0.000420 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000263 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000249 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000785 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000292 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000333 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000259 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000290 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000394 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000349 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000288 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000294 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000856 | 0.00275 | 1 | 09/07/2017 03:41 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000307 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Di-isopropyl ether | U | | 0.000273 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Ethylbenzene | U | | 0.000327 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000376 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 2-Hexanone | U UJ | J0 | 0.00151 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |
| n-Hexane | 0.0107 J | J J0 | 0.000319 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Iodomethane | U | | 0.00278 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Isopropylbenzene | U | | 0.000267 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000224 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00515 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Methylene Chloride | U | | 0.00110 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00207 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Naphthalene | U | | 0.00110 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Styrene | U | | 0.000257 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000290 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000402 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000402 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Tetrachloroethene | U | | 0.000304 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Toluene | U | | 0.000478 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000427 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000315 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000305 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Trichloroethene | U | | 0.000307 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000420 | 0.00550 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000815 | 0.00275 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000316 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000293 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Vinyl acetate | U | | 0.00263 | 0.0110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Vinyl chloride | U | | 0.000320 | 0.00110 | 1 | 09/07/2017 03:41 | WG1017434 |
| Xylenes, Total | U | | 0.000768 | 0.00330 | 1 | 09/07/2017 03:41 | WG1017434 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *09/07/2017 03:41* | WG1017434 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/07/2017 03:41* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *64.0-132* | | *09/07/2017 03:41* | WG1017434 |

JC
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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.5 | | 1 | 09/11/2017 14:58 | WG1018906 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0109 | 0.0546 | 1 | 09/07/2017 04:01 | WG1017434 |
| Acrylonitrile | U UJ | J0 | 0.00196 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Benzene | U | | 0.000295 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Bromodichloromethane | U | | 0.000278 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Bromochloromethane | U | | 0.000426 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| Bromoform | U | | 0.000463 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Bromomethane | U | | 0.00146 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| n-Butylbenzene | U | | 0.000282 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| sec-Butylbenzene | U | | 0.000220 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Carbon disulfide | U | | 0.000242 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Chlorobenzene | U | | 0.000232 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Chlorodibromomethane | U | | 0.000408 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Chloroethane | U | | 0.00103 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| Chloroform | U | | 0.000250 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| Chloromethane | U UJ | J0 | 0.000410 | 0.00273 | 1 | 09/07/2017 04:01 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000329 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000375 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000247 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000779 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000290 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1-Dichloroethene | U | | 0.000331 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| cis-1,2-Dichloroethene | U | | 0.000257 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| trans-1,2-Dichloroethene | U | | 0.000289 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000391 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000292 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000850 | 0.00273 | 1 | 09/07/2017 04:01 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000305 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Di-isopropyl ether | U | | 0.000271 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Ethylbenzene | U | | 0.000325 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000374 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 2-Hexanone | U UJ | J0 | 0.00150 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |
| n-Hexane | U UJ | J0 | 0.000317 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Isopropylbenzene | U | | 0.000266 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00511 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Methylene Chloride | U | | 0.00109 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00205 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000232 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Naphthalene | U | | 0.00109 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Styrene | U | | 0.000256 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000289 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000399 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000399 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Tetrachloroethene | U | | 0.000302 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Toluene | U | | 0.000474 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000424 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000313 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000303 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Trichloroethene | U | | 0.000305 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000417 | 0.00546 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000810 | 0.00273 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2,4-Trimethylbenzene | U | | 0.000231 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,2,3-Trimethylbenzene | U | | 0.000314 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| 1,3,5-Trimethylbenzene | U | | 0.000291 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Vinyl chloride | U | | 0.000318 | 0.00109 | 1 | 09/07/2017 04:01 | WG1017434 |
| Xylenes, Total | U | | 0.000763 | 0.00328 | 1 | 09/07/2017 04:01 | WG1017434 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/07/2017 04:01* | WG1017434 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *09/07/2017 04:01* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/07/2017 04:01* | WG1017434 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.5 | | 1 | 09/12/2017 10:20 | WG1018910 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0114 | 0.0572 | 1 | 09/07/2017 04:20 | WG1017434 |
| Acrylonitrile | U UJ | J0 | 0.00205 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Benzene | U | | 0.000309 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Bromobenzene | U | | 0.000325 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Bromodichloromethane | U | | 0.000290 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Bromochloromethane | U | | 0.000446 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| Bromoform | U | | 0.000485 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Bromomethane | U | | 0.00153 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| n-Butylbenzene | U | | 0.000295 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| sec-Butylbenzene | U | | 0.000230 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| tert-Butylbenzene | U | | 0.000236 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Carbon disulfide | 0.00112 J | J | 0.000253 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Carbon tetrachloride | U | | 0.000375 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Chlorodibromomethane | U | | 0.000427 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Chloroethane | U | | 0.00108 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| Chloroform | U | | 0.000262 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| Chloromethane | U UJ | J0 | 0.000429 | 0.00286 | 1 | 09/07/2017 04:20 | WG1017434 |
| 2-Chlorotoluene | U | | 0.000344 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 4-Chlorotoluene | U | | 0.000274 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2-Dibromoethane | U | | 0.000392 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Dibromomethane | U | | 0.000437 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2-Dichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,3-Dichlorobenzene | U | | 0.000273 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,4-Dichlorobenzene | U | | 0.000258 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000815 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1-Dichloroethane | U | | 0.000228 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2-Dichloroethane | U | | 0.000303 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1-Dichloroethene | 0.00333 | | 0.000346 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| cis-1,2-Dichloroethene | 5.73 | | 0.269 | 1.14 | 1000 | 09/12/2017 16:10 | WG1017434 |
| trans-1,2-Dichloroethene | 0.00334 | | 0.000302 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2-Dichloropropane | U | | 0.000409 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1-Dichloropropene | U | | 0.000362 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,3-Dichloropropane | U | | 0.000237 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| cis-1,3-Dichloropropene | U | | 0.000300 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| trans-1,3-Dichloropropene | U | | 0.000305 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| trans-1,4-Dichloro-2-butene | U | | 0.000890 | 0.00286 | 1 | 09/07/2017 04:20 | WG1017434 |
| 2,2-Dichloropropane | U | | 0.000319 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Di-isopropyl ether | U | | 0.000284 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Ethylbenzene | U | | 0.000340 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Hexachloro-1,3-butadiene | U | | 0.000391 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 2-Hexanone | U UJ | J0 | 0.00157 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |
| n-Hexane | 0.00116 J | J J0 | 0.000332 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Iodomethane | U | | 0.00289 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Isopropylbenzene | U | | 0.000278 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| p-Isopropyltoluene | U | | 0.000233 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00535 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Methylene Chloride | U | | 0.00114 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00215 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Naphthalene | U | | 0.00114 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| n-Propylbenzene | U | | 0.000236 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Styrene | U | | 0.000268 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000302 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000417 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000417 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Tetrachloroethene | 152 | | 0.316 | 1.14 | 1000 | 09/12/2017 16:10 | WG1017434 |
| Toluene | 0.000702 | J J | 0.000496 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2,3-Trichlorobenzene | U | | 0.000350 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2,4-Trichlorobenzene | U | | 0.000444 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1,1-Trichloroethane | U | | 0.000327 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,1,2-Trichloroethane | U | | 0.000317 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Trichloroethene | 0.150 | | 0.000319 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Trichlorofluoromethane | U | | 0.000437 | 0.00572 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2,3-Trichloropropane | U | | 0.000847 | 0.00286 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2,4-Trimethylbenzene | 0.00113 | J J | 0.000241 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,2,3-Trimethylbenzene | 0.000383 | J J | 0.000328 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| 1,3,5-Trimethylbenzene | 0.000471 | J J | 0.000304 | 0.00114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Vinyl acetate | U | | 0.00273 | 0.0114 | 1 | 09/07/2017 04:20 | WG1017434 |
| Vinyl chloride | 0.464 | J J | 0.333 | 1.14 | 1000 | 09/12/2017 16:10 | WG1017434 |
| Xylenes, Total | U | | 0.000798 | 0.00343 | 1 | 09/07/2017 04:20 | WG1017434 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/12/2017 16:10* | WG1017434 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/07/2017 04:20* | WG1017434 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *09/07/2017 04:20* | WG1017434 |
| *(S) Dibromofluoromethane* | *97.3* | | | *74.0-131* | | *09/12/2017 16:10* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *131* | | | *64.0-132* | | *09/07/2017 04:20* | WG1017434 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/12/2017 16:10* | WG1017434 |

JC 10/12/2017

# ANALYTICAL REPORT

September 14, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L934673 |
| Samples Received: | 09/07/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-213-85 L934673-01 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 16:15 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1019358 | 1 | 09/13/17 10:15 | 09/13/17 10:25 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 1 | 09/05/17 16:15 | 09/08/17 23:07 | BMB |

## B-217-55 L934673-02 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 16:25 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1019358 | 1 | 09/13/17 10:15 | 09/13/17 10:25 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 1 | 09/05/17 16:25 | 09/08/17 23:27 | BMB |

## B-217-65 L934673-03 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 16:50 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1019358 | 1 | 09/13/17 10:15 | 09/13/17 10:25 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 1 | 09/05/17 16:50 | 09/08/17 23:48 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 50 | 09/05/17 16:50 | 09/10/17 17:21 | ACG |

## B-217-75 L934673-04 Solid

Collected by: Shannon McKernan | Collected date/time: 09/05/17 17:30 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1019358 | 1 | 09/13/17 10:15 | 09/13/17 10:25 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 1 | 09/05/17 17:30 | 09/09/17 00:08 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 1 | 09/05/17 17:30 | 09/10/17 17:04 | ACG |

## B-217-85 L934673-05 Solid

Collected by: Shannon McKernan | Collected date/time: 09/06/17 09:00 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1019358 | 1 | 09/13/17 10:15 | 09/13/17 10:25 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 1 | 09/06/17 09:00 | 09/09/17 00:29 | BMB |

## B-213-90-W L934673-06 GW

Collected by: Shannon McKernan | Collected date/time: 09/06/17 10:50 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1018315 | 1 | 09/11/17 01:55 | 09/11/17 01:55 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018559 | 1 | 09/09/17 15:59 | 09/09/17 15:59 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018559 | 10 | 09/11/17 01:41 | 09/11/17 01:41 | ACG |

## B-213-95 L934673-07 Solid

Collected by: Shannon McKernan | Collected date/time: 09/06/17 11:30 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1019358 | 1 | 09/13/17 10:15 | 09/13/17 10:25 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 1 | 09/06/17 11:30 | 09/09/17 00:49 | BMB |

## B-217-95 L934673-08 Solid

Collected by: Shannon McKernan | Collected date/time: 09/06/17 10:20 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1019358 | 1 | 09/13/17 10:15 | 09/13/17 10:25 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 1 | 09/06/17 10:20 | 09/09/17 01:10 | BMB |

## B-906-110 L934673-09 Solid

Collected by: Shannon McKernan | Collected date/time: 09/06/17 11:40 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1019359 | 1 | 09/13/17 09:35 | 09/13/17 09:49 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 1 | 09/06/17 11:40 | 09/09/17 01:30 | BMB |

## B-213-105 L934673-10 Solid

Collected by: Shannon McKernan | Collected date/time: 09/06/17 12:15 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1019359 | 1 | 09/13/17 09:35 | 09/13/17 09:49 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 1 | 09/06/17 12:15 | 09/09/17 01:51 | BMB |

## B-213-115 L934673-11 Solid

Collected by: Shannon McKernan | Collected date/time: 09/06/17 12:40 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1019359 | 1 | 09/13/17 09:35 | 09/13/17 09:49 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 1 | 09/06/17 12:40 | 09/09/17 02:11 | BMB |

## B-217-106 L934673-12 Solid

Collected by: Shannon McKernan | Collected date/time: 09/06/17 13:30 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1019359 | 1 | 09/13/17 09:35 | 09/13/17 09:49 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 100 | 09/06/17 13:30 | 09/09/17 02:32 | BMB |

## B-217-115 L934673-13 Solid

Collected by: Shannon McKernan | Collected date/time: 09/06/17 13:40 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1019359 | 1 | 09/13/17 09:35 | 09/13/17 09:49 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 1 | 09/06/17 13:40 | 09/09/17 02:52 | BMB |

## B-213-125 L934673-14 Solid

Collected by: Shannon McKernan | Collected date/time: 09/06/17 14:10 | Received date/time: 09/07/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1019359 | 1 | 09/13/17 09:35 | 09/13/17 09:49 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018380 | 1.36 | 09/06/17 14:10 | 09/09/17 03:13 | BMB |

## TRIP BLANK-090617 L934673-15 GW

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 09/06/17 00:00 | 09/07/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018559 | 1 | 09/09/17 13:30 | 09/09/17 13:30 | BMB |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.0 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0122 | 0.0610 | 1 | 09/08/2017 23:07 | WG1018380 |
| Acrylonitrile | U | | 0.00218 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Benzene | U | | 0.000329 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Bromobenzene | U | | 0.000346 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Bromodichloromethane | U | | 0.000310 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Bromochloromethane | U | | 0.000475 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| Bromoform | U | | 0.000517 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Bromomethane | U | | 0.00163 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| n-Butylbenzene | U | | 0.000315 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| sec-Butylbenzene | U | | 0.000245 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| tert-Butylbenzene | U | | 0.000251 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Carbon disulfide | 0.000882 | J | 0.000269 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Carbon tetrachloride | U | | 0.000400 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Chlorobenzene | U | | 0.000258 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Chlorodibromomethane | U | | 0.000455 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Chloroethane | U | | 0.00115 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| Chloroform | U | | 0.000279 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| Chloromethane | U | | 0.000457 | 0.00305 | 1 | 09/08/2017 23:07 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000367 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000293 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00128 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000418 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Dibromomethane | U | | 0.000466 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000372 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000291 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000276 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000869 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000243 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000323 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000369 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000286 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000322 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000436 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000386 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000252 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000319 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000325 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000948 | 0.00305 | 1 | 09/08/2017 23:07 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000340 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Di-isopropyl ether | U | | 0.000302 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Ethylbenzene | U | | 0.000362 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000417 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 2-Hexanone | U | | 0.00167 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |
| n-Hexane | U | | 0.000354 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Iodomethane | U | | 0.00308 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Isopropylbenzene | U | | 0.000296 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000249 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00571 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Methylene Chloride | U | | 0.00122 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00229 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000258 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Naphthalene | U | | 0.00122 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| n-Propylbenzene | U | | 0.000251 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Styrene | U | | 0.000285 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000322 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000445 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000445 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Tetrachloroethene | U | | 0.000336 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Toluene | U | | 0.000529 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000373 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000473 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000349 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000338 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Trichloroethene | U | | 0.000340 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000466 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000903 | 0.00305 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000257 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000350 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000324 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Vinyl acetate | U | | 0.00291 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Vinyl chloride | U | | 0.000355 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Xylenes, Total | U | | 0.000851 | 0.00366 | 1 | 09/08/2017 23:07 | WG1018380 |
| *(S) Toluene-d8* | *98.2* | | | *80.0-120* | | *09/08/2017 23:07* | WG1018380 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/08/2017 23:07* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *92.1* | | | *64.0-132* | | *09/08/2017 23:07* | WG1018380 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.1 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0228 | J | 0.0116 | 0.0580 | 1 | 09/08/2017 23:27 | WG1018380 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Bromochloromethane | U | | 0.000453 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| Bromoform | U | | 0.000492 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Bromomethane | U | | 0.00156 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| n-Butylbenzene | U | | 0.000300 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Carbon disulfide | 0.000321 | J | 0.000257 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Chloroethane | U | | 0.00110 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| Chloroform | U | | 0.000266 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| Chloromethane | U | | 0.000435 | 0.00290 | 1 | 09/08/2017 23:27 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000398 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000828 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000308 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1-Dichloroethene | 0.000375 | J | 0.000352 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| cis-1,2-Dichloroethene | 0.0787 | | 0.000273 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000306 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000903 | 0.00290 | 1 | 09/08/2017 23:27 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |
| n-Hexane | U | | 0.000337 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 2-Butanone (MEK) | 0.0155 | | 0.00543 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Methylene Chloride | U | | 0.00116 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Naphthalene | U | | 0.00116 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Toluene | U | | 0.000504 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Trichloroethene | U | | 0.000324 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000860 | 0.00290 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Vinyl chloride | 0.00462 | | 0.000338 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Xylenes, Total | U | | 0.000810 | 0.00348 | 1 | 09/08/2017 23:27 | WG1018380 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/08/2017 23:27* | WG1018380 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/08/2017 23:27* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *91.3* | | | *64.0-132* | | *09/08/2017 23:27* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.8 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0115 | 0.0576 | 1 | 09/08/2017 23:48 | WG1018380 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Benzene | U | | 0.000311 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Bromobenzene | U | | 0.000327 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Bromochloromethane | U | | 0.000449 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| Bromoform | U | | 0.000488 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Bromomethane | U | | 0.00154 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| n-Butylbenzene | U | | 0.000297 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| tert-Butylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Carbon disulfide | 0.00111 | J | 0.000254 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Carbon tetrachloride | U | | 0.000378 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Chlorobenzene | U | | 0.000244 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Chlorodibromomethane | U | | 0.000430 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Chloroethane | U | | 0.00109 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| Chloroform | U | | 0.000264 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| Chloromethane | U | | 0.000432 | 0.00288 | 1 | 09/08/2017 23:48 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000347 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000276 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000395 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Dibromomethane | U | | 0.000440 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000275 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000260 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000821 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000229 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000305 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1-Dichloroethene | 0.00515 | | 0.000349 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| cis-1,2-Dichloroethene | 3.14 | | 0.0136 | 0.0576 | 50 | 09/10/2017 17:21 | WG1018380 |
| trans-1,2-Dichloroethene | 0.000366 | J | 0.000304 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000412 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000365 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000302 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000307 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000896 | 0.00288 | 1 | 09/08/2017 23:48 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000321 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Di-isopropyl ether | U | | 0.000286 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Ethylbenzene | U | | 0.000342 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000394 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |
| n-Hexane | U | | 0.000334 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Iodomethane | U | | 0.00291 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00539 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Methylene Chloride | U | | 0.00115 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Naphthalene | U | | 0.00115 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000304 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000420 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000420 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Tetrachloroethene | 0.0255 | | 0.000318 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Toluene | U | | 0.000500 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000447 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000329 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000319 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Trichloroethene | 0.00178 | | 0.000321 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000440 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000853 | 0.00288 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000243 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000330 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000306 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Vinyl acetate | U | | 0.00275 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Vinyl chloride | 0.00259 | | 0.000335 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Xylenes, Total | U | | 0.000804 | 0.00345 | 1 | 09/08/2017 23:48 | WG1018380 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/10/2017 17:21* | WG1018380 |
| *(S) Toluene-d8* | *97.0* | | | *80.0-120* | | *09/08/2017 23:48* | WG1018380 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/08/2017 23:48* | WG1018380 |
| *(S) Dibromofluoromethane* | *95.6* | | | *74.0-131* | | *09/10/2017 17:21* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *93.3* | | | *64.0-132* | | *09/08/2017 23:48* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *97.3* | | | *64.0-132* | | *09/10/2017 17:21* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.5 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0120 | 0.0599 | 1 | 09/09/2017 00:08 | WG1018380 |
| Acrylonitrile | U | | 0.00214 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Benzene | U | | 0.000323 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Bromobenzene | U | | 0.000340 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Bromodichloromethane | U | | 0.000304 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Bromochloromethane | U | | 0.000467 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| Bromoform | U | | 0.000508 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Bromomethane | U | | 0.00161 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| n-Butylbenzene | U | | 0.000309 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| sec-Butylbenzene | U | | 0.000241 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| tert-Butylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Carbon disulfide | 0.000452 | J | 0.000265 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Carbon tetrachloride | U | | 0.000393 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Chlorobenzene | U | | 0.000254 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Chlorodibromomethane | U | | 0.000447 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Chloroethane | U | | 0.00113 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| Chloroform | U | | 0.000274 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| Chloromethane | U | | 0.000449 | 0.00299 | 1 | 09/09/2017 00:08 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000361 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000287 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000411 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Dibromomethane | U | | 0.000458 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000365 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000286 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000271 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000854 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000238 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000317 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000363 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000281 | 0.00120 | 1 | 09/10/2017 17:04 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000316 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000429 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000380 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000248 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000314 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000320 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000932 | 0.00299 | 1 | 09/09/2017 00:08 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000334 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Di-isopropyl ether | U | | 0.000297 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Ethylbenzene | U | | 0.000356 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000410 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 2-Hexanone | U | | 0.00164 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |
| n-Hexane | U | | 0.000347 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Iodomethane | U | | 0.00303 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Isopropylbenzene | U | | 0.000291 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000244 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00561 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Methylene Chloride | U | | 0.00120 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00225 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000254 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Naphthalene | U | | 0.00120 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| n-Propylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Styrene | U | | 0.000280 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000316 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000437 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000437 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Tetrachloroethene | U | | 0.000331 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Toluene | U | | 0.000520 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000465 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000343 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000332 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Trichloroethene | U | | 0.000334 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000458 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000888 | 0.00299 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000253 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000344 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000319 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Vinyl acetate | U | | 0.00286 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Vinyl chloride | U | | 0.000349 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Xylenes, Total | U | | 0.000836 | 0.00359 | 1 | 09/09/2017 00:08 | WG1018380 |
| *(S) Toluene-d8* | *95.6* | | | *80.0-120* | | *09/09/2017 00:08* | WG1018380 |
| *(S) Toluene-d8* | *92.8* | | | *80.0-120* | | *09/10/2017 17:04* | WG1018380 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/10/2017 17:04* | WG1018380 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/09/2017 00:08* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *97.2* | | | *64.0-132* | | *09/10/2017 17:04* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *94.8* | | | *64.0-132* | | *09/09/2017 00:08* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.8 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0570 | 1 | 09/09/2017 00:29 | WG1018380 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Bromobenzene | U | | 0.000324 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Bromodichloromethane | U | | 0.000289 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Bromochloromethane | U | | 0.000444 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| Bromoform | U | | 0.000483 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Bromomethane | U | | 0.00153 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Carbon disulfide | 0.000537 | J | 0.000252 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Carbon tetrachloride | U | | 0.000374 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Chlorodibromomethane | U | | 0.000425 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Chloroethane | U | | 0.00108 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| Chloroform | U | | 0.000261 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| Chloromethane | U | | 0.000427 | 0.00285 | 1 | 09/09/2017 00:29 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000273 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Dibromomethane | U | | 0.000435 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000272 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000812 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000345 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000268 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000301 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000408 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000361 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000298 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000304 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000886 | 0.00285 | 1 | 09/09/2017 00:29 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Di-isopropyl ether | U | | 0.000283 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Ethylbenzene | U | | 0.000338 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000390 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |
| n-Hexane | U | | 0.000330 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Iodomethane | U | | 0.00288 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00533 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Methylene Chloride | U | | 0.00114 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Naphthalene | U | | 0.00114 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000416 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000416 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Tetrachloroethene | U | | 0.000314 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Toluene | U | | 0.000494 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000442 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000316 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Trichloroethene | U | | 0.000318 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000435 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000844 | 0.00285 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000240 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000327 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000303 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Vinyl acetate | U | | 0.00272 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Vinyl chloride | U | | 0.000332 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Xylenes, Total | U | | 0.000795 | 0.00342 | 1 | 09/09/2017 00:29 | WG1018380 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/09/2017 00:29* | WG1018380 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/09/2017 00:29* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *94.1* | | | *64.0-132* | | *09/09/2017 00:29* | WG1018380 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 712 | | 31.6 | 100 | 1 | 09/11/2017 01:55 | WG1018315 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-122* | | *09/11/2017 01:55* | WG1018315 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 9.61 | J | 1.05 | 25.0 | 1 | 09/09/2017 15:59 | WG1018559 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| Benzene | 3.22 | | 0.0896 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Carbon disulfide | 0.166 | J | 0.101 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Chloromethane | 1.93 | | 0.153 | 1.25 | 1 | 09/09/2017 15:59 | WG1018559 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/09/2017 15:59 | WG1018559 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 2-Butanone (MEK) | 7.90 | | 1.28 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Toluene | 436 | | 4.12 | 5.00 | 10 | 09/11/2017 01:41 | WG1018559 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| Vinyl chloride | 0.424 | J | 0.118 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/11/2017 01:41* | WG1018559 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/09/2017 15:59* | WG1018559 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/09/2017 15:59* | WG1018559 |
| *(S) Dibromofluoromethane* | *112* | | | *76.0-123* | | *09/11/2017 01:41* | WG1018559 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *80.0-120* | | *09/09/2017 15:59* | WG1018559 |
| *(S) 4-Bromofluorobenzene* | *114* | | | *80.0-120* | | *09/11/2017 01:41* | WG1018559 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.0 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0124 | 0.0618 | 1 | 09/09/2017 00:49 | WG1018380 |
| Acrylonitrile | U | | 0.00221 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Benzene | U | | 0.000334 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Bromobenzene | U | | 0.000351 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Bromodichloromethane | U | | 0.000314 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Bromochloromethane | U | | 0.000482 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| Bromoform | U | | 0.000524 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Bromomethane | U | | 0.00166 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| n-Butylbenzene | U | | 0.000319 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| sec-Butylbenzene | U | | 0.000248 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| tert-Butylbenzene | U | | 0.000254 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Carbon disulfide | U | | 0.000273 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Carbon tetrachloride | U | | 0.000405 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Chlorobenzene | U | | 0.000262 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Chlorodibromomethane | U | | 0.000461 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Chloroethane | U | | 0.00117 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| Chloroform | U | | 0.000283 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| Chloromethane | U | | 0.000463 | 0.00309 | 1 | 09/09/2017 00:49 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000372 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000296 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00130 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000424 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Dibromomethane | U | | 0.000472 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000377 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000295 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000279 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000881 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000246 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000327 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000374 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000290 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000326 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000442 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000392 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000256 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000324 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000330 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000961 | 0.00309 | 1 | 09/09/2017 00:49 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000345 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Di-isopropyl ether | U | | 0.000306 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Ethylbenzene | U | | 0.000367 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000422 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 2-Hexanone | U | | 0.00169 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |
| n-Hexane | U | | 0.000358 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Iodomethane | U | | 0.00313 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Isopropylbenzene | U | | 0.000300 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000252 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00578 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Methylene Chloride | U | | 0.00124 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00232 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000262 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Naphthalene | U | | 0.00124 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| n-Propylbenzene | U | | 0.000254 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Styrene | U | | 0.000289 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000326 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000451 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000451 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Tetrachloroethene | U | | 0.000341 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Toluene | U | | 0.000536 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000378 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000479 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000353 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000342 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Trichloroethene | U | | 0.000345 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000472 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000915 | 0.00309 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000261 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000355 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000329 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Vinyl acetate | U | | 0.00295 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Vinyl chloride | U | | 0.000359 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Xylenes, Total | U | | 0.000862 | 0.00371 | 1 | 09/09/2017 00:49 | WG1018380 |
| *(S) Toluene-d8* | *98.9* | | | *80.0-120* | | *09/09/2017 00:49* | WG1018380 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/09/2017 00:49* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *92.7* | | | *64.0-132* | | *09/09/2017 00:49* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.7 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0121 | 0.0604 | 1 | 09/09/2017 01:10 | WG1018380 |
| Acrylonitrile | U | | 0.00216 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Benzene | U | | 0.000326 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Bromobenzene | U | | 0.000343 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Bromodichloromethane | U | | 0.000307 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Bromochloromethane | U | | 0.000471 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| Bromoform | U | | 0.000512 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Bromomethane | U | | 0.00162 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| n-Butylbenzene | U | | 0.000312 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| sec-Butylbenzene | U | | 0.000243 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| tert-Butylbenzene | U | | 0.000249 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Carbon disulfide | U | | 0.000267 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Carbon tetrachloride | U | | 0.000396 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Chlorobenzene | U | | 0.000256 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Chlorodibromomethane | U | | 0.000451 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Chloroethane | U | | 0.00114 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| Chloroform | U | | 0.000277 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| Chloromethane | U | | 0.000453 | 0.00302 | 1 | 09/09/2017 01:10 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000364 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000290 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00127 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000415 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Dibromomethane | U | | 0.000462 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000369 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000289 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000273 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000862 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000241 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000320 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000366 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000284 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000319 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000433 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000383 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000250 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000317 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000323 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000940 | 0.00302 | 1 | 09/09/2017 01:10 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000337 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Di-isopropyl ether | U | | 0.000300 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Ethylbenzene | U | | 0.000359 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000413 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 2-Hexanone | U | | 0.00166 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |
| n-Hexane | U | | 0.000351 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Iodomethane | U | | 0.00306 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Isopropylbenzene | U | | 0.000294 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000247 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00566 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Methylene Chloride | U | | 0.00121 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00227 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000256 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Naphthalene | U | | 0.00121 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| n-Propylbenzene | U | | 0.000249 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Styrene | U | | 0.000283 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000319 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000441 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000441 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Tetrachloroethene | 0.00111 | J | 0.000334 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Toluene | U | | 0.000525 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000370 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000469 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000346 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000335 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Trichloroethene | U | | 0.000337 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000462 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000896 | 0.00302 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000255 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000347 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000322 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Vinyl acetate | U | | 0.00289 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Vinyl chloride | U | | 0.000352 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Xylenes, Total | U | | 0.000844 | 0.00363 | 1 | 09/09/2017 01:10 | WG1018380 |
| *(S) Toluene-d8* | *97.0* | | | *80.0-120* | | *09/09/2017 01:10* | WG1018380 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/09/2017 01:10* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *92.2* | | | *64.0-132* | | *09/09/2017 01:10* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.1 | | 1 | 09/13/2017 09:49 | WG1019359 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0115 | 0.0574 | 1 | 09/09/2017 01:30 | WG1018380 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Benzene | U | | 0.000310 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Bromobenzene | U | | 0.000326 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Bromochloromethane | U | | 0.000448 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| Bromoform | U | | 0.000487 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Bromomethane | U | | 0.00154 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| n-Butylbenzene | U | | 0.000296 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| tert-Butylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Carbon disulfide | U | | 0.000254 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Carbon tetrachloride | U | | 0.000377 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Chlorobenzene | U | | 0.000243 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Chlorodibromomethane | U | | 0.000428 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Chloroethane | U | | 0.00109 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| Chloroform | U | | 0.000263 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| Chloromethane | U | | 0.000431 | 0.00287 | 1 | 09/09/2017 01:30 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000346 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000276 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000394 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Dibromomethane | U | | 0.000439 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000350 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000274 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000259 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000819 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000228 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000304 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000348 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000270 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000303 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000411 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000364 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000307 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000893 | 0.00287 | 1 | 09/09/2017 01:30 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000320 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Di-isopropyl ether | U | | 0.000285 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Ethylbenzene | U | | 0.000341 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000393 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 2-Hexanone | U | | 0.00157 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |
| n-Hexane | U | | 0.000333 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Iodomethane | U | | 0.00290 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Isopropylbenzene | U | | 0.000279 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000234 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00537 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Methylene Chloride | U | | 0.00115 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000243 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Naphthalene | U | | 0.00115 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000303 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000419 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000419 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Tetrachloroethene | U | | 0.000317 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Toluene | U | | 0.000498 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000445 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000328 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000318 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Trichloroethene | U | | 0.000320 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000439 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000851 | 0.00287 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000242 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000330 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000305 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Vinyl acetate | U | | 0.00274 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Vinyl chloride | U | | 0.000334 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Xylenes, Total | U | | 0.000801 | 0.00344 | 1 | 09/09/2017 01:30 | WG1018380 |
| *(S) Toluene-d8* | *97.6* | | | *80.0-120* | | *09/09/2017 01:30* | WG1018380 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/09/2017 01:30* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *92.4* | | | *64.0-132* | | *09/09/2017 01:30* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.0 | | 1 | 09/13/2017 09:49 | WG1019359 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0115 | 0.0574 | 1 | 09/09/2017 01:51 | WG1018380 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Benzene | U | | 0.000310 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Bromobenzene | U | | 0.000326 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Bromochloromethane | U | | 0.000448 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| Bromoform | U | | 0.000487 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Bromomethane | U | | 0.00154 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| n-Butylbenzene | U | | 0.000296 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| tert-Butylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Carbon disulfide | U | | 0.000254 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Carbon tetrachloride | U | | 0.000377 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Chlorobenzene | U | | 0.000244 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Chlorodibromomethane | U | | 0.000429 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Chloroethane | U | | 0.00109 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| Chloroform | U | | 0.000263 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| Chloromethane | U | | 0.000431 | 0.00287 | 1 | 09/09/2017 01:51 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000346 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000276 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000394 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Dibromomethane | U | | 0.000439 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000350 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000275 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000260 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000819 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000229 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000304 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000348 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000270 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000303 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000411 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000364 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000307 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000894 | 0.00287 | 1 | 09/09/2017 01:51 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000321 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Di-isopropyl ether | U | | 0.000285 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Ethylbenzene | U | | 0.000341 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000393 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 2-Hexanone | U | | 0.00157 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |
| n-Hexane | U | | 0.000333 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Iodomethane | U | | 0.00291 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Isopropylbenzene | U | | 0.000279 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000234 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00538 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Methylene Chloride | U | | 0.00115 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Naphthalene | U | | 0.00115 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000303 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000419 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000419 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Tetrachloroethene | U | | 0.000317 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Toluene | U | | 0.000499 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000446 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000329 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000318 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Trichloroethene | U | | 0.000321 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000439 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000851 | 0.00287 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000242 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000330 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000306 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Vinyl acetate | U | | 0.00275 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Vinyl chloride | U | | 0.000334 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Xylenes, Total | U | | 0.000802 | 0.00345 | 1 | 09/09/2017 01:51 | WG1018380 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/09/2017 01:51* | WG1018380 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/09/2017 01:51* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *90.7* | | | *64.0-132* | | *09/09/2017 01:51* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.6 | | 1 | 09/13/2017 09:49 | WG1019359 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0123 | 0.0613 | 1 | 09/09/2017 02:11 | WG1018380 |
| Acrylonitrile | U | | 0.00219 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Benzene | U | | 0.000331 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Bromobenzene | U | | 0.000348 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Bromodichloromethane | U | | 0.000311 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Bromochloromethane | U | | 0.000478 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| Bromoform | U | | 0.000520 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Bromomethane | U | | 0.00164 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| n-Butylbenzene | U | | 0.000316 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| sec-Butylbenzene | U | | 0.000246 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| tert-Butylbenzene | U | | 0.000253 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Carbon disulfide | U | | 0.000271 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Carbon tetrachloride | U | | 0.000402 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Chlorobenzene | U | | 0.000260 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Chlorodibromomethane | U | | 0.000457 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Chloroethane | U | | 0.00116 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| Chloroform | U | | 0.000281 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| Chloromethane | U | | 0.000460 | 0.00307 | 1 | 09/09/2017 02:11 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000369 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000294 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00129 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000421 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Dibromomethane | U | | 0.000468 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000374 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000293 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000277 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000874 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000244 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000325 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000372 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000288 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000324 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000439 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000389 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000254 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000321 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000327 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000954 | 0.00307 | 1 | 09/09/2017 02:11 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000342 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Di-isopropyl ether | U | | 0.000304 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Ethylbenzene | U | | 0.000364 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000419 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 2-Hexanone | U | | 0.00168 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |
| n-Hexane | U | | 0.000356 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Iodomethane | U | | 0.00310 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Isopropylbenzene | U | | 0.000298 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000250 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00574 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Methylene Chloride | U | | 0.00123 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00231 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000260 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Naphthalene | U | | 0.00123 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| n-Propylbenzene | U | | 0.000253 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Styrene | U | | 0.000287 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000324 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000448 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000448 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Tetrachloroethene | U | | 0.000338 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Toluene | U | | 0.000532 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000375 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000476 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000351 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000340 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Trichloroethene | U | | 0.000342 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000468 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000909 | 0.00307 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000259 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000352 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000326 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Vinyl acetate | U | | 0.00293 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Vinyl chloride | U | | 0.000357 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Xylenes, Total | U | | 0.000856 | 0.00368 | 1 | 09/09/2017 02:11 | WG1018380 |
| *(S) Toluene-d8* | *99.3* | | | *80.0-120* | | *09/09/2017 02:11* | WG1018380 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/09/2017 02:11* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *93.6* | | | *64.0-132* | | *09/09/2017 02:11* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.6 | | 1 | 09/13/2017 09:49 | WG1019359 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 1.23 | 6.13 | 100 | 09/09/2017 02:32 | WG1018380 |
| Acrylonitrile | U | | 0.219 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |
| Benzene | U | | 0.0331 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Bromobenzene | U | | 0.0348 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Bromodichloromethane | U | | 0.0311 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Bromochloromethane | U | | 0.0478 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| Bromoform | U | | 0.0520 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Bromomethane | U | | 0.164 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| n-Butylbenzene | U | | 0.0316 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| sec-Butylbenzene | U | | 0.0246 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| tert-Butylbenzene | U | | 0.0252 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Carbon disulfide | U | | 0.0271 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Carbon tetrachloride | U | | 0.0402 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Chlorobenzene | U | | 0.0260 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Chlorodibromomethane | U | | 0.0457 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Chloroethane | U | | 0.116 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| Chloroform | U | | 0.0281 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| Chloromethane | U | | 0.0460 | 0.306 | 100 | 09/09/2017 02:32 | WG1018380 |
| 2-Chlorotoluene | U | | 0.0369 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 4-Chlorotoluene | U | | 0.0294 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.129 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.0420 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Dibromomethane | U | | 0.0468 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.0374 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.0293 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.0277 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.0874 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.0244 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.0325 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.0371 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.0288 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.0324 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.0439 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.0389 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.0254 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.0321 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.0327 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.0954 | 0.306 | 100 | 09/09/2017 02:32 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.0342 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Di-isopropyl ether | U | | 0.0304 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Ethylbenzene | U | | 0.0364 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.0419 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 2-Hexanone | U | | 0.168 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |
| n-Hexane | U | | 0.0355 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |
| Iodomethane | U | | 0.310 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |
| Isopropylbenzene | U | | 0.0298 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| p-Isopropyltoluene | U | | 0.0250 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.574 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |
| Methylene Chloride | U | | 0.123 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.230 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0260 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Naphthalene | U | | 0.123 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| n-Propylbenzene | U | | 0.0252 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Styrene | U | | 0.0287 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0324 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0447 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0447 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Tetrachloroethene | 5.18 | | 0.0338 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Toluene | U | | 0.0532 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.0375 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.0476 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.0351 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.0339 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Trichloroethene | 0.704 | | 0.0342 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Trichlorofluoromethane | U | | 0.0468 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.0908 | 0.306 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.0259 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.0352 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.0326 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Vinyl acetate | U | | 0.293 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |
| Vinyl chloride | U | | 0.0357 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Xylenes, Total | U | | 0.0855 | 0.368 | 100 | 09/09/2017 02:32 | WG1018380 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/09/2017 02:32* | WG1018380 |
| *(S) Dibromofluoromethane* | *98.3* | | | *74.0-131* | | *09/09/2017 02:32* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *97.1* | | | *64.0-132* | | *09/09/2017 02:32* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.6 | | 1 | 09/13/2017 09:49 | WG1019359 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0115 | 0.0577 | 1 | 09/09/2017 02:52 | WG1018380 |
| Acrylonitrile | U | | 0.00207 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Benzene | U | | 0.000312 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Bromobenzene | U | | 0.000328 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Bromodichloromethane | U | | 0.000293 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Bromochloromethane | U | | 0.000450 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| Bromoform | U | | 0.000490 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Bromomethane | U | | 0.00155 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| n-Butylbenzene | U | | 0.000298 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| sec-Butylbenzene | U | | 0.000232 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| tert-Butylbenzene | U | | 0.000238 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Carbon disulfide | U | | 0.000255 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Carbon tetrachloride | U | | 0.000379 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Chlorobenzene | U | | 0.000245 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Chlorodibromomethane | U | | 0.000431 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Chloroethane | U | | 0.00109 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| Chloroform | U | | 0.000264 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| Chloromethane | U | | 0.000433 | 0.00289 | 1 | 09/09/2017 02:52 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000348 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000277 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000396 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Dibromomethane | U | | 0.000441 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000276 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000261 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000823 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000306 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000350 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000271 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000305 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000413 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000366 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000239 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000303 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000308 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000898 | 0.00289 | 1 | 09/09/2017 02:52 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000322 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Di-isopropyl ether | U | | 0.000286 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Ethylbenzene | U | | 0.000343 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000395 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |
| n-Hexane | U | | 0.000335 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Iodomethane | U | | 0.00292 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Isopropylbenzene | U | | 0.000281 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00540 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Methylene Chloride | U | | 0.00115 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00217 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000245 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Naphthalene | U | | 0.00115 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| n-Propylbenzene | U | | 0.000238 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Styrene | U | | 0.000270 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000305 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000421 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000421 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Tetrachloroethene | U | | 0.000319 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Toluene | U | | 0.000501 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000353 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000448 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000330 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000320 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Trichloroethene | U | | 0.000322 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000441 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000856 | 0.00289 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000331 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000307 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Vinyl acetate | U | | 0.00276 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Vinyl chloride | U | | 0.000336 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Xylenes, Total | U | | 0.000806 | 0.00346 | 1 | 09/09/2017 02:52 | WG1018380 |
| *(S) Toluene-d8* | *98.1* | | | *80.0-120* | | *09/09/2017 02:52* | WG1018380 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/09/2017 02:52* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *91.5* | | | *64.0-132* | | *09/09/2017 02:52* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.9 | | 1 | 09/13/2017 09:49 | WG1019359 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0148 | 0.0740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Acrylonitrile | U | | 0.00265 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Benzene | U | | 0.000400 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Bromobenzene | U | | 0.000420 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Bromodichloromethane | U | | 0.000376 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Bromochloromethane | U | | 0.000577 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Bromoform | U | | 0.000628 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Bromomethane | U | | 0.00198 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| n-Butylbenzene | U | | 0.000382 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| sec-Butylbenzene | U | | 0.000297 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| tert-Butylbenzene | U | | 0.000305 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Carbon disulfide | 0.000628 | J | 0.000327 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Carbon tetrachloride | U | | 0.000485 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Chlorobenzene | U | | 0.000314 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Chlorodibromomethane | U | | 0.000552 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Chloroethane | U | | 0.00140 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Chloroform | U | | 0.000339 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Chloromethane | U | | 0.000555 | 0.00370 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000445 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000355 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00156 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000507 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Dibromomethane | U | | 0.000566 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000452 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000354 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000334 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.00106 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000295 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000392 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000448 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000348 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000391 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000530 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000469 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000307 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000388 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000395 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.00115 | 0.00370 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000413 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Di-isopropyl ether | U | | 0.000367 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Ethylbenzene | U | | 0.000440 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000506 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 2-Hexanone | U | | 0.00202 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| n-Hexane | U | | 0.000429 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Iodomethane | U | | 0.00374 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Isopropylbenzene | U | | 0.000359 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000302 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00692 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Methylene Chloride | U | | 0.00148 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00279 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000314 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Naphthalene | U | | 0.00148 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| n-Propylbenzene | U | | 0.000305 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Styrene | U | | 0.000346 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000391 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000540 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000540 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Tetrachloroethene | U | | 0.000408 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Toluene | U | | 0.000642 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000453 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000575 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000423 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000410 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Trichloroethene | U | | 0.000413 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000566 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.00110 | 0.00370 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000312 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000425 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000394 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Vinyl acetate | U | | 0.00354 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Vinyl chloride | U | | 0.000431 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Xylenes, Total | U | | 0.00103 | 0.00444 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| *(S) Toluene-d8* | *97.0* | | | *80.0-120* | | *09/09/2017 03:13* | WG1018380 |
| *(S) Dibromofluoromethane* | *99.4* | | | *74.0-131* | | *09/09/2017 03:13* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *92.4* | | | *64.0-132* | | *09/09/2017 03:13* | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1.05 | 25.0 | 1 | 09/09/2017 13:30 | WG1018559 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/09/2017 13:30 | WG1018559 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/09/2017 13:30 | WG1018559 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| *(S) Toluene-d8* | *99.6* | | | *80.0-120* | | *09/09/2017 13:30* | WG1018559 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/09/2017 13:30* | WG1018559 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *80.0-120* | | *09/09/2017 13:30* | WG1018559 |

## Method Blank (MB)

(MB) R3249149-1 09/13/17 10:25

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.000600 | | | |

## L934673-01 Original Sample (OS) • Duplicate (DUP)

(OS) L934673-01 09/13/17 10:25 • (DUP) R3249149-3 09/13/17 10:25

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 82.0 | 84.4 | 1 | 2.86 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3249149-2 09/13/17 10:25

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3249144-1 09/13/17 09:49

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000700 | | | |

## L934673-09 Original Sample (OS) • Duplicate (DUP)

(OS) L934673-09 09/13/17 09:49 • (DUP) R3249144-3 09/13/17 09:49

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 87.1 | 88.8 | 1 | 1.95 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3249144-2 09/13/17 09:49

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 99.9 | 85.0-115 | |

## Method Blank (MB)

(MB) R3249114-3 09/10/17 05:44

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 36.8 | J | 31.6 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-122* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3249114-1 09/10/17 04:37 • (LCSD) R3249114-2 09/10/17 04:59

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 5990 | 6020 | 109 | 110 | 72.0-134 | | | 0.490 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *103* | *103* | *77.0-122* | | | | |

## L934658-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L934658-01 09/10/17 18:54 • (MS) R3249114-4 09/11/17 02:18 • (MSD) R3249114-5 09/11/17 02:40

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 189 | 5310 | 5840 | 93.1 | 103 | 1 | 23.0-159 | | | 9.57 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *99.7* | *99.7* | | *77.0-122* | | | | |

## Method Blank (MB)

(MB) R3248102-3 09/08/17 19:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3248102-3 09/08/17 19:30

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *98.7* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *94.8* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248102-1 09/08/17 18:28 • (LCSD) R3248102-2 09/08/17 18:49

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0879 | 0.0981 | 70.3 | 78.5 | 11.0-160 | | | 11.0 | 23 |
| Acrylonitrile | 0.125 | 0.105 | 0.116 | 83.7 | 92.6 | 61.0-143 | | | 10.1 | 20 |
| Benzene | 0.0250 | 0.0225 | 0.0226 | 89.9 | 90.4 | 71.0-124 | | | 0.540 | 20 |
| Bromobenzene | 0.0250 | 0.0218 | 0.0216 | 87.3 | 86.4 | 78.0-120 | | | 1.02 | 20 |
| Bromodichloromethane | 0.0250 | 0.0231 | 0.0234 | 92.5 | 93.7 | 75.0-120 | | | 1.32 | 20 |
| Bromoform | 0.0250 | 0.0218 | 0.0230 | 87.3 | 92.0 | 65.0-133 | | | 5.26 | 20 |
| Bromochloromethane | 0.0250 | 0.0223 | 0.0233 | 89.1 | 93.2 | 80.0-121 | | | 4.53 | 20 |
| Bromomethane | 0.0250 | 0.0245 | 0.0242 | 97.9 | 96.7 | 26.0-160 | | | 1.26 | 20 |
| n-Butylbenzene | 0.0250 | 0.0234 | 0.0240 | 93.7 | 96.0 | 73.0-126 | | | 2.41 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0222 | 0.0226 | 89.0 | 90.5 | 75.0-121 | | | 1.73 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0221 | 0.0225 | 88.4 | 90.0 | 74.0-122 | | | 1.86 | 20 |
| Carbon disulfide | 0.0250 | 0.0240 | 0.0240 | 96.1 | 96.0 | 53.0-130 | | | 0.0400 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0220 | 0.0229 | 88.0 | 91.4 | 66.0-123 | | | 3.84 | 20 |
| Chlorobenzene | 0.0250 | 0.0246 | 0.0249 | 98.4 | 99.6 | 79.0-121 | | | 1.20 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0236 | 0.0241 | 94.3 | 96.4 | 74.0-128 | | | 2.12 | 20 |
| Chloroethane | 0.0250 | 0.0239 | 0.0238 | 95.7 | 95.1 | 51.0-147 | | | 0.610 | 20 |
| Chloroform | 0.0250 | 0.0226 | 0.0224 | 90.4 | 89.5 | 73.0-123 | | | 1.01 | 20 |
| Chloromethane | 0.0250 | 0.0223 | 0.0206 | 89.3 | 82.5 | 51.0-138 | | | 7.92 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0221 | 0.0226 | 88.4 | 90.5 | 72.0-124 | | | 2.36 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0214 | 0.0221 | 85.8 | 88.3 | 78.0-120 | | | 2.89 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0222 | 0.0222 | 88.8 | 88.8 | 65.0-126 | | | 0.0200 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0229 | 0.0238 | 91.4 | 95.3 | 78.0-122 | | | 4.14 | 20 |
| Dibromomethane | 0.0250 | 0.0225 | 0.0222 | 89.8 | 88.8 | 79.0-120 | | | 1.21 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0234 | 0.0234 | 93.7 | 93.5 | 80.0-120 | | | 0.210 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0237 | 0.0240 | 94.7 | 95.9 | 72.0-123 | | | 1.26 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0219 | 0.0224 | 87.4 | 89.6 | 77.0-120 | | | 2.45 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0219 | 0.0215 | 87.5 | 86.2 | 49.0-155 | | | 1.50 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0231 | 0.0235 | 92.4 | 94.2 | 68.0-126 | | | 1.92 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0232 | 0.0235 | 92.8 | 93.9 | 70.0-128 | | | 1.15 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0232 | 0.0238 | 92.7 | 95.1 | 69.0-128 | | | 2.54 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0236 | 0.0234 | 94.5 | 93.8 | 63.0-131 | | | 0.780 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0208 | 0.0212 | 83.3 | 84.9 | 74.0-123 | | | 1.86 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0212 | 0.0214 | 84.6 | 85.4 | 72.0-122 | | | 0.960 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0240 | 0.0243 | 96.0 | 97.2 | 75.0-126 | | | 1.26 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0228 | 0.0225 | 91.2 | 90.0 | 72.0-130 | | | 1.43 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0240 | 0.0250 | 96.1 | 100 | 80.0-121 | | | 4.07 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0254 | 0.0268 | 101 | 107 | 80.0-125 | | | 5.36 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0264 | 0.0276 | 106 | 110 | 75.0-129 | | | 4.17 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0231 | 0.0238 | 92.4 | 95.3 | 60.0-129 | | | 3.03 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0218 | 0.0219 | 87.1 | 87.4 | 62.0-133 | | | 0.370 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248102-1 09/08/17 18:28 • (LCSD) R3248102-2 09/08/17 18:49

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0232 | 0.0231 | 92.9 | 92.5 | 77.0-120 | | | 0.380 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0250 | 0.0245 | 99.8 | 98.1 | 68.0-128 | | | 1.69 | 20 |
| n-Hexane | 0.0250 | 0.0203 | 0.0202 | 81.2 | 80.7 | 57.0-125 | | | 0.700 | 20 |
| 2-Hexanone | 0.125 | 0.114 | 0.113 | 90.9 | 90.6 | 61.0-143 | | | 0.320 | 20 |
| Isopropylbenzene | 0.0250 | 0.0213 | 0.0216 | 85.0 | 86.6 | 75.0-120 | | | 1.81 | 20 |
| Iodomethane | 0.125 | 0.133 | 0.136 | 107 | 109 | 67.0-132 | | | 2.19 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0231 | 0.0234 | 92.5 | 93.5 | 74.0-125 | | | 1.09 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.113 | 0.115 | 90.4 | 92.2 | 37.0-159 | | | 1.90 | 20 |
| Methylene Chloride | 0.0250 | 0.0209 | 0.0208 | 83.6 | 83.0 | 67.0-123 | | | 0.660 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.117 | 0.119 | 93.5 | 95.2 | 60.0-144 | | | 1.76 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0212 | 0.0214 | 85.0 | 85.5 | 66.0-125 | | | 0.620 | 20 |
| Naphthalene | 0.0250 | 0.0224 | 0.0218 | 89.5 | 87.0 | 64.0-125 | | | 2.79 | 20 |
| n-Propylbenzene | 0.0250 | 0.0222 | 0.0225 | 88.6 | 90.1 | 78.0-120 | | | 1.69 | 20 |
| Styrene | 0.0250 | 0.0224 | 0.0229 | 89.7 | 91.5 | 78.0-124 | | | 2.02 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0226 | 0.0233 | 90.4 | 93.2 | 74.0-124 | | | 3.13 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0214 | 0.0219 | 85.7 | 87.5 | 73.0-120 | | | 2.14 | 20 |
| Tetrachloroethene | 0.0250 | 0.0255 | 0.0260 | 102 | 104 | 70.0-127 | | | 1.81 | 20 |
| Toluene | 0.0250 | 0.0221 | 0.0229 | 88.5 | 91.7 | 77.0-120 | | | 3.52 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0243 | 0.0242 | 97.1 | 96.6 | 64.0-135 | | | 0.520 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0250 | 0.0241 | 100 | 96.4 | 68.0-126 | | | 3.67 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0255 | 0.0252 | 102 | 101 | 70.0-127 | | | 0.950 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0221 | 0.0223 | 88.4 | 89.2 | 69.0-125 | | | 0.910 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0222 | 0.0231 | 88.7 | 92.3 | 78.0-120 | | | 3.93 | 20 |
| Trichloroethene | 0.0250 | 0.0238 | 0.0238 | 95.3 | 95.1 | 79.0-120 | | | 0.230 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0284 | 0.0286 | 113 | 114 | 59.0-136 | | | 0.870 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0204 | 0.0210 | 81.8 | 84.2 | 73.0-124 | | | 2.84 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0204 | 0.0203 | 81.6 | 81.1 | 76.0-120 | | | 0.580 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0204 | 0.0207 | 81.7 | 82.9 | 75.0-120 | | | 1.53 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0215 | 0.0217 | 85.9 | 86.7 | 75.0-120 | | | 0.920 | 20 |
| Vinyl chloride | 0.0250 | 0.0272 | 0.0267 | 109 | 107 | 63.0-134 | | | 2.06 | 20 |
| Xylenes, Total | 0.0750 | 0.0668 | 0.0681 | 89.1 | 90.8 | 77.0-120 | | | 1.93 | 20 |
| Vinyl acetate | 0.125 | 0.130 | 0.130 | 104 | 104 | 58.0-156 | | | 0.0100 | 20 |
| *(S) Toluene-d8* | | | | *104* | *106* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *97.5* | *96.6* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *91.5* | *91.1* | *64.0-132* | | | | |

## L934673-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L934673-12 09/09/17 02:32 • (MS) R3248102-4 09/09/17 03:33 • (MSD) R3248102-5 09/09/17 03:54

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.153 | U | 4.90 | 5.54 | 32.0 | 36.2 | 100 | 10.0-160 | | | 12.3 | 36 |
| Acrylonitrile | 0.153 | U | 10.1 | 10.9 | 65.9 | 71.3 | 100 | 14.0-160 | | | 7.89 | 33 |
| Benzene | 0.0306 | U | 1.85 | 1.88 | 60.5 | 61.5 | 100 | 13.0-146 | | | 1.67 | 27 |
| Bromobenzene | 0.0306 | U | 1.87 | 1.98 | 60.9 | 64.5 | 100 | 10.0-149 | | | 5.78 | 33 |
| Bromodichloromethane | 0.0306 | U | 2.04 | 2.09 | 66.7 | 68.3 | 100 | 15.0-142 | | | 2.35 | 28 |
| Bromoform | 0.0306 | U | 1.93 | 2.06 | 62.9 | 67.3 | 100 | 10.0-147 | | | 6.76 | 31 |
| Bromomethane | 0.0306 | U | 2.09 | 2.03 | 68.2 | 66.1 | 100 | 10.0-160 | | | 3.06 | 32 |
| Bromochloromethane | 0.0306 | U | 1.95 | 2.01 | 63.7 | 65.5 | 100 | 24.0-146 | | | 2.73 | 27 |
| n-Butylbenzene | 0.0306 | U | 1.86 | 1.96 | 60.6 | 64.0 | 100 | 10.0-154 | | | 5.39 | 37 |
| sec-Butylbenzene | 0.0306 | U | 1.86 | 1.93 | 60.6 | 62.8 | 100 | 10.0-151 | | | 3.62 | 36 |
| tert-Butylbenzene | 0.0306 | U | 1.93 | 1.98 | 63.0 | 64.6 | 100 | 10.0-152 | | | 2.56 | 35 |
| Carbon disulfide | 0.0306 | U | 1.34 | 1.36 | 43.7 | 44.3 | 100 | 10.0-141 | | | 1.34 | 30 |
| Carbon tetrachloride | 0.0306 | U | 1.86 | 1.81 | 60.9 | 59.2 | 100 | 13.0-140 | | | 2.81 | 30 |
| Chlorobenzene | 0.0306 | U | 2.10 | 2.21 | 68.7 | 72.0 | 100 | 10.0-149 | | | 4.67 | 31 |
| Chlorodibromomethane | 0.0306 | U | 2.14 | 2.19 | 69.8 | 71.5 | 100 | 12.0-147 | | | 2.30 | 29 |
| Chloroethane | 0.0306 | U | 1.89 | 1.85 | 61.6 | 60.4 | 100 | 10.0-159 | | | 1.91 | 33 |
| Chloroform | 0.0306 | U | 1.95 | 1.98 | 63.6 | 64.6 | 100 | 18.0-148 | | | 1.69 | 28 |
| Chloromethane | 0.0306 | U | 1.61 | 1.44 | 52.5 | 47.1 | 100 | 10.0-146 | | | 10.7 | 29 |
| 2-Chlorotoluene | 0.0306 | U | 1.89 | 1.98 | 61.5 | 64.8 | 100 | 10.0-151 | | | 5.11 | 35 |
| 4-Chlorotoluene | 0.0306 | U | 1.86 | 1.95 | 60.6 | 63.6 | 100 | 10.0-150 | | | 4.69 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0306 | U | 1.94 | 2.09 | 63.2 | 68.4 | 100 | 10.0-149 | | | 7.84 | 34 |
| 1,2-Dibromoethane | 0.0306 | U | 2.02 | 2.12 | 65.9 | 69.1 | 100 | 14.0-145 | | | 4.69 | 28 |
| Dibromomethane | 0.0306 | U | 1.91 | 2.08 | 62.4 | 67.9 | 100 | 18.0-144 | | | 8.42 | 27 |
| 1,2-Dichlorobenzene | 0.0306 | U | 2.04 | 2.09 | 66.6 | 68.2 | 100 | 10.0-153 | | | 2.35 | 34 |
| 1,3-Dichlorobenzene | 0.0306 | U | 1.94 | 2.06 | 63.4 | 67.1 | 100 | 10.0-150 | | | 5.68 | 35 |
| 1,4-Dichlorobenzene | 0.0306 | U | 1.90 | 2.00 | 61.9 | 65.1 | 100 | 10.0-148 | | | 5.07 | 34 |
| Dichlorodifluoromethane | 0.0306 | U | 1.89 | 1.78 | 61.8 | 58.2 | 100 | 10.0-160 | | | 5.93 | 30 |
| 1,1-Dichloroethane | 0.0306 | U | 1.96 | 1.98 | 64.0 | 64.7 | 100 | 19.0-148 | | | 1.17 | 28 |
| 1,2-Dichloroethane | 0.0306 | U | 2.04 | 2.15 | 66.5 | 70.1 | 100 | 17.0-147 | | | 5.26 | 27 |
| trans-1,4-Dichloro-2-butene | 0.0306 | U | 2.35 | 2.42 | 76.6 | 78.9 | 100 | 10.0-160 | | | 2.99 | 40 |
| 1,1-Dichloroethene | 0.0306 | U | 1.89 | 1.91 | 61.6 | 62.2 | 100 | 10.0-150 | | | 1.02 | 31 |
| cis-1,2-Dichloroethene | 0.0306 | U | 1.78 | 1.74 | 58.2 | 56.8 | 100 | 16.0-145 | | | 2.41 | 28 |
| trans-1,2-Dichloroethene | 0.0306 | U | 1.65 | 1.67 | 53.9 | 54.5 | 100 | 11.0-142 | | | 1.23 | 29 |
| 1,2-Dichloropropane | 0.0306 | U | 2.11 | 2.18 | 69.0 | 71.0 | 100 | 17.0-148 | | | 2.94 | 28 |
| 1,1-Dichloropropene | 0.0306 | U | 1.86 | 1.87 | 60.8 | 60.9 | 100 | 10.0-150 | | | 0.190 | 30 |
| 1,3-Dichloropropane | 0.0306 | U | 2.21 | 2.31 | 72.0 | 75.4 | 100 | 16.0-148 | | | 4.61 | 27 |
| cis-1,3-Dichloropropene | 0.0306 | U | 2.32 | 2.36 | 75.7 | 77.0 | 100 | 13.0-150 | | | 1.72 | 28 |
| trans-1,3-Dichloropropene | 0.0306 | U | 2.40 | 2.50 | 78.2 | 81.7 | 100 | 10.0-152 | | | 4.28 | 29 |
| 2,2-Dichloropropane | 0.0306 | U | 1.87 | 1.87 | 61.0 | 61.2 | 100 | 16.0-143 | | | 0.280 | 30 |

## L934673-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L934673-12 09/09/17 02:32 • (MS) R3248102-4 09/09/17 03:33 • (MSD) R3248102-5 09/09/17 03:54

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Di-isopropyl ether | 0.0306 | U | 1.93 | 2.01 | 63.0 | 65.6 | 100 | 16.0-149 | | | 3.99 | 28 |
| Ethylbenzene | 0.0306 | U | 1.94 | 2.02 | 63.2 | 66.1 | 100 | 10.0-147 | | | 4.46 | 31 |
| Hexachloro-1,3-butadiene | 0.0306 | U | 2.11 | 2.09 | 69.0 | 68.2 | 100 | 10.0-154 | | | 1.17 | 40 |
| n-Hexane | 0.0306 | U | 1.38 | 1.40 | 45.1 | 45.8 | 100 | 10.0-140 | | | 1.62 | 34 |
| Isopropylbenzene | 0.0306 | U | 1.80 | 1.87 | 58.8 | 61.1 | 100 | 10.0-147 | | | 3.93 | 33 |
| 2-Hexanone | 0.153 | U | 9.01 | 9.29 | 58.8 | 60.6 | 100 | 12.0-158 | | | 3.03 | 30 |
| p-Isopropyltoluene | 0.0306 | U | 1.92 | 1.96 | 62.5 | 64.0 | 100 | 10.0-156 | | | 2.38 | 37 |
| 2-Butanone (MEK) | 0.153 | U | 7.67 | 8.36 | 50.1 | 54.5 | 100 | 10.0-160 | | | 8.57 | 33 |
| Iodomethane | 0.153 | U | 11.6 | 11.5 | 75.5 | 75.4 | 100 | 10.0-157 | | | 0.150 | 34 |
| Methylene Chloride | 0.0306 | U | 1.84 | 1.80 | 60.1 | 58.6 | 100 | 16.0-139 | | | 2.52 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.153 | U | 10.3 | 10.6 | 67.4 | 68.9 | 100 | 12.0-160 | | | 2.30 | 32 |
| Methyl tert-butyl ether | 0.0306 | U | 1.90 | 2.00 | 61.9 | 65.4 | 100 | 21.0-145 | | | 5.53 | 29 |
| Naphthalene | 0.0306 | U | 1.78 | 1.90 | 58.2 | 62.2 | 100 | 10.0-153 | | | 6.56 | 36 |
| n-Propylbenzene | 0.0306 | U | 1.82 | 1.92 | 59.3 | 62.6 | 100 | 10.0-151 | | | 5.45 | 34 |
| Styrene | 0.0306 | U | 1.89 | 2.04 | 61.6 | 66.7 | 100 | 10.0-155 | | | 7.94 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0306 | U | 2.07 | 2.12 | 67.4 | 69.3 | 100 | 10.0-147 | | | 2.76 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0306 | U | 1.83 | 1.88 | 59.6 | 61.4 | 100 | 10.0-155 | | | 2.97 | 31 |
| Tetrachloroethene | 0.0306 | 5.18 | 7.38 | 7.03 | 71.7 | 60.3 | 100 | 10.0-144 | | | 4.87 | 32 |
| Toluene | 0.0306 | U | 1.85 | 1.95 | 60.3 | 63.6 | 100 | 10.0-144 | | | 5.33 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0306 | U | 2.23 | 2.17 | 72.6 | 70.8 | 100 | 10.0-153 | | | 2.56 | 33 |
| 1,2,3-Trichlorobenzene | 0.0306 | U | 2.06 | 2.16 | 67.3 | 70.5 | 100 | 10.0-153 | | | 4.63 | 40 |
| 1,2,4-Trichlorobenzene | 0.0306 | U | 2.06 | 2.24 | 67.2 | 73.1 | 100 | 10.0-156 | | | 8.44 | 40 |
| 1,1,1-Trichloroethane | 0.0306 | U | 1.87 | 1.81 | 60.9 | 59.1 | 100 | 18.0-145 | | | 3.13 | 29 |
| 1,1,2-Trichloroethane | 0.0306 | U | 1.99 | 2.06 | 65.0 | 67.2 | 100 | 12.0-151 | | | 3.41 | 28 |
| Trichloroethene | 0.0306 | 0.704 | 2.67 | 2.64 | 64.0 | 63.3 | 100 | 11.0-148 | | | 0.840 | 29 |
| Trichlorofluoromethane | 0.0306 | U | 2.52 | 2.53 | 82.4 | 82.5 | 100 | 10.0-157 | | | 0.150 | 34 |
| 1,2,3-Trichloropropane | 0.0306 | U | 1.83 | 1.97 | 59.8 | 64.1 | 100 | 10.0-154 | | | 6.94 | 32 |
| 1,2,3-Trimethylbenzene | 0.0306 | U | 1.90 | 1.93 | 62.1 | 63.1 | 100 | 10.0-150 | | | 1.50 | 33 |
| 1,2,4-Trimethylbenzene | 0.0306 | U | 1.76 | 1.84 | 57.3 | 60.1 | 100 | 10.0-151 | | | 4.78 | 34 |
| 1,3,5-Trimethylbenzene | 0.0306 | U | 1.78 | 1.87 | 58.0 | 61.1 | 100 | 10.0-150 | | | 5.17 | 33 |
| Vinyl chloride | 0.0306 | U | 1.90 | 1.82 | 62.2 | 59.5 | 100 | 10.0-150 | | | 4.33 | 29 |
| Xylenes, Total | 0.0919 | U | 5.69 | 5.82 | 61.9 | 63.3 | 100 | 10.0-150 | | | 2.34 | 31 |
| Vinyl acetate | 0.153 | U | 12.0 | 12.6 | 78.0 | 82.4 | 100 | 10.0-160 | | | 5.47 | 40 |
| *(S) Toluene-d8* | | | | | *105* | *104* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *97.5* | *94.5* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *90.3* | *90.3* | | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3248093-3 09/09/17 11:50

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3248093-3 09/09/17 11:50

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *99.6* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *107* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248093-1 09/09/17 10:45 • (LCSD) R3248093-2 09/09/17 11:06

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 139 | 138 | 111 | 110 | 10.0-160 | | | 0.380 | 23 |
| Acrylonitrile | 125 | 148 | 146 | 119 | 116 | 60.0-142 | | | 1.79 | 20 |
| Benzene | 25.0 | 25.0 | 25.3 | 99.8 | 101 | 69.0-123 | | | 1.35 | 20 |
| Bromobenzene | 25.0 | 26.1 | 26.6 | 105 | 106 | 79.0-120 | | | 1.62 | 20 |
| Bromodichloromethane | 25.0 | 26.6 | 27.3 | 106 | 109 | 76.0-120 | | | 2.41 | 20 |
| Bromochloromethane | 25.0 | 24.8 | 25.7 | 99.4 | 103 | 76.0-122 | | | 3.23 | 20 |
| Bromoform | 25.0 | 28.0 | 27.5 | 112 | 110 | 67.0-132 | | | 2.06 | 20 |
| Bromomethane | 25.0 | 22.4 | 21.9 | 89.8 | 87.7 | 18.0-160 | | | 2.28 | 20 |
| n-Butylbenzene | 25.0 | 23.4 | 24.2 | 93.5 | 97.0 | 72.0-126 | | | 3.60 | 20 |
| sec-Butylbenzene | 25.0 | 25.4 | 26.0 | 102 | 104 | 74.0-121 | | | 2.32 | 20 |
| tert-Butylbenzene | 25.0 | 24.5 | 25.0 | 98.0 | 99.9 | 75.0-122 | | | 1.91 | 20 |
| Carbon disulfide | 25.0 | 23.6 | 24.1 | 94.5 | 96.4 | 55.0-127 | | | 1.99 | 20 |
| Carbon tetrachloride | 25.0 | 23.7 | 25.2 | 94.9 | 101 | 63.0-122 | | | 5.84 | 20 |
| Chlorobenzene | 25.0 | 23.3 | 23.3 | 93.4 | 93.4 | 79.0-121 | | | 0.0100 | 20 |
| Chlorodibromomethane | 25.0 | 25.2 | 25.0 | 101 | 100 | 75.0-125 | | | 0.610 | 20 |
| Chloroethane | 25.0 | 21.4 | 21.6 | 85.4 | 86.3 | 47.0-152 | | | 1.07 | 20 |
| Chloroform | 25.0 | 25.5 | 25.9 | 102 | 104 | 72.0-121 | | | 1.39 | 20 |
| Chloromethane | 25.0 | 22.1 | 23.1 | 88.5 | 92.5 | 48.0-139 | | | 4.42 | 20 |
| 2-Chlorotoluene | 25.0 | 25.2 | 25.8 | 101 | 103 | 74.0-122 | | | 2.12 | 20 |
| 4-Chlorotoluene | 25.0 | 25.6 | 26.0 | 102 | 104 | 79.0-120 | | | 1.50 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 25.4 | 24.5 | 102 | 98.0 | 64.0-127 | | | 3.64 | 20 |
| 1,2-Dibromoethane | 25.0 | 24.9 | 25.1 | 99.7 | 100 | 77.0-123 | | | 0.690 | 20 |
| Dibromomethane | 25.0 | 26.3 | 26.3 | 105 | 105 | 78.0-120 | | | 0.0300 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 24.3 | 24.7 | 97.3 | 98.7 | 80.0-120 | | | 1.43 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 24.5 | 25.0 | 98.1 | 100 | 72.0-123 | | | 2.06 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 23.7 | 23.9 | 94.7 | 95.6 | 77.0-120 | | | 0.940 | 20 |
| Dichlorodifluoromethane | 25.0 | 22.8 | 24.0 | 91.0 | 95.9 | 49.0-155 | | | 5.19 | 20 |
| 1,1-Dichloroethane | 25.0 | 26.3 | 26.7 | 105 | 107 | 70.0-126 | | | 1.66 | 20 |
| 1,2-Dichloroethane | 25.0 | 27.8 | 27.8 | 111 | 111 | 67.0-126 | | | 0.310 | 20 |
| 1,1-Dichloroethene | 25.0 | 24.1 | 24.5 | 96.5 | 98.2 | 64.0-129 | | | 1.70 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 24.7 | 25.0 | 98.7 | 100 | 73.0-120 | | | 1.49 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 24.2 | 24.8 | 96.9 | 99.0 | 71.0-121 | | | 2.16 | 20 |
| 1,2-Dichloropropane | 25.0 | 27.5 | 27.9 | 110 | 112 | 75.0-125 | | | 1.45 | 20 |
| 1,1-Dichloropropene | 25.0 | 24.9 | 25.3 | 99.6 | 101 | 71.0-129 | | | 1.57 | 20 |
| 1,3-Dichloropropane | 25.0 | 25.1 | 25.1 | 100 | 101 | 80.0-121 | | | 0.140 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 26.7 | 27.0 | 107 | 108 | 79.0-123 | | | 1.02 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 26.4 | 26.4 | 106 | 105 | 74.0-127 | | | 0.170 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 22.5 | 22.0 | 90.0 | 87.9 | 55.0-134 | | | 2.31 | 20 |
| 2,2-Dichloropropane | 25.0 | 23.2 | 23.3 | 92.6 | 93.2 | 60.0-125 | | | 0.650 | 20 |
| Di-isopropyl ether | 25.0 | 27.1 | 27.6 | 108 | 110 | 59.0-133 | | | 1.81 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248093-1 09/09/17 10:45 • (LCSD) R3248093-2 09/09/17 11:06

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 22.1 | 22.7 | 88.5 | 90.6 | 77.0-120 | | | 2.39 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 20.4 | 22.3 | 81.7 | 89.3 | 64.0-131 | | | 8.87 | 20 |
| 2-Hexanone | 125 | 139 | 137 | 112 | 109 | 58.0-147 | | | 1.89 | 20 |
| n-Hexane | 25.0 | 21.9 | 22.9 | 87.7 | 91.4 | 56.0-124 | | | 4.19 | 20 |
| Iodomethane | 125 | 119 | 122 | 95.3 | 97.3 | 57.0-140 | | | 2.01 | 20 |
| Isopropylbenzene | 25.0 | 25.1 | 25.5 | 100 | 102 | 75.0-120 | | | 1.49 | 20 |
| p-Isopropyltoluene | 25.0 | 25.4 | 26.0 | 102 | 104 | 74.0-126 | | | 2.53 | 20 |
| 2-Butanone (MEK) | 125 | 138 | 136 | 110 | 109 | 37.0-158 | | | 0.950 | 20 |
| Methylene Chloride | 25.0 | 24.7 | 25.0 | 99.0 | 100 | 66.0-121 | | | 1.00 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 141 | 138 | 113 | 111 | 59.0-143 | | | 1.62 | 20 |
| Methyl tert-butyl ether | 25.0 | 25.9 | 26.2 | 104 | 105 | 64.0-123 | | | 1.35 | 20 |
| Naphthalene | 25.0 | 24.4 | 25.1 | 97.7 | 100 | 62.0-128 | | | 2.64 | 20 |
| n-Propylbenzene | 25.0 | 25.6 | 26.0 | 102 | 104 | 79.0-120 | | | 1.67 | 20 |
| Styrene | 25.0 | 27.7 | 28.1 | 111 | 112 | 78.0-124 | | | 1.43 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 23.9 | 23.9 | 95.5 | 95.7 | 75.0-122 | | | 0.220 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 28.1 | 27.8 | 112 | 111 | 71.0-122 | | | 1.04 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 23.2 | 23.9 | 92.9 | 95.6 | 61.0-136 | | | 2.85 | 20 |
| Tetrachloroethene | 25.0 | 22.2 | 22.5 | 88.8 | 89.9 | 70.0-127 | | | 1.19 | 20 |
| Toluene | 25.0 | 22.7 | 23.0 | 90.9 | 91.9 | 77.0-120 | | | 1.08 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 21.8 | 22.8 | 87.4 | 91.3 | 61.0-133 | | | 4.43 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 21.5 | 22.3 | 85.8 | 89.2 | 69.0-129 | | | 3.78 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 25.5 | 25.9 | 102 | 103 | 68.0-122 | | | 1.44 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 24.2 | 24.3 | 96.8 | 97.0 | 78.0-120 | | | 0.240 | 20 |
| Trichloroethene | 25.0 | 24.5 | 24.6 | 97.9 | 98.4 | 78.0-120 | | | 0.490 | 20 |
| Trichlorofluoromethane | 25.0 | 22.2 | 22.8 | 88.7 | 91.0 | 56.0-137 | | | 2.55 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 28.3 | 28.0 | 113 | 112 | 72.0-124 | | | 1.05 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 25.6 | 25.9 | 102 | 104 | 75.0-120 | | | 1.23 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 23.2 | 23.6 | 92.7 | 94.3 | 75.0-120 | | | 1.70 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 25.1 | 25.6 | 101 | 103 | 75.0-120 | | | 2.06 | 20 |
| Vinyl acetate | 125 | 127 | 120 | 101 | 96.2 | 46.0-160 | | | 5.22 | 20 |
| Vinyl chloride | 25.0 | 22.8 | 24.0 | 91.2 | 95.9 | 64.0-133 | | | 5.04 | 20 |
| Xylenes, Total | 75.0 | 68.2 | 69.3 | 90.9 | 92.4 | 77.0-120 | | | 1.60 | 20 |
| *(S) Toluene-d8* | | | | *96.7* | *96.6* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *102* | *101* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *105* | *106* | *80.0-120* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

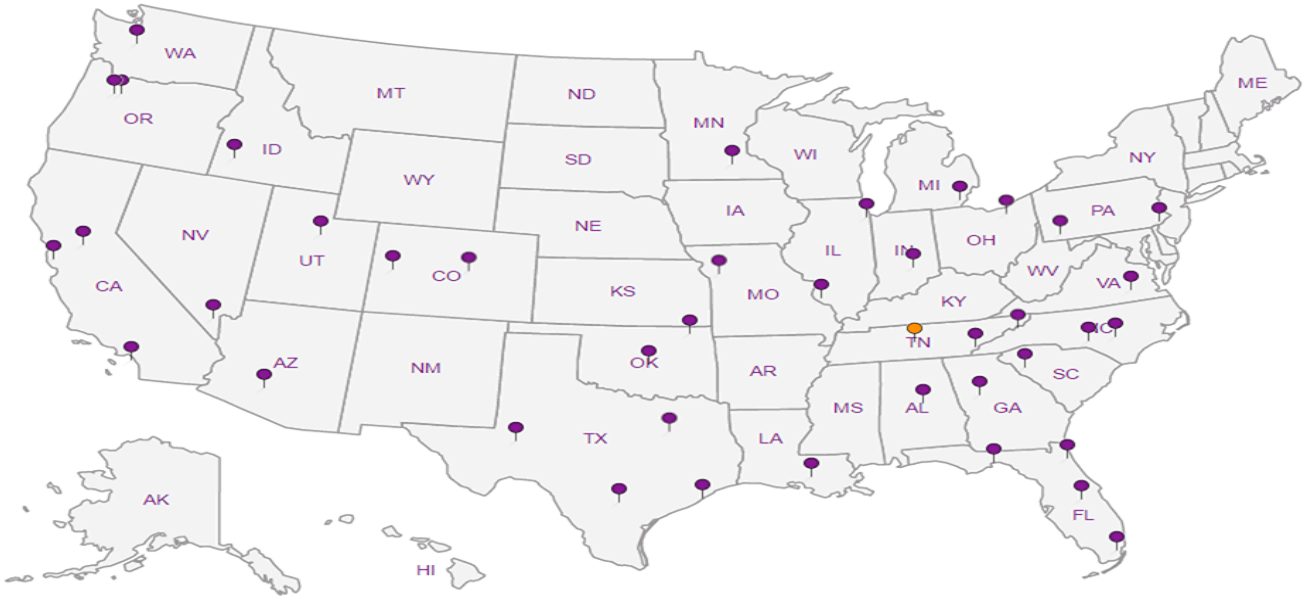
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-213-85 | GRAB | SS ~~GW~~ | 85 | 9/5/17 | 1615 | ~~4~~ 8 | | ~~X~~ | X | X | ~~X~~ | | -01 |
| B-217-55 | | SS ~~GW~~ | 55 | | 1625 | ~~4~~ 8 | | ~~X~~ | X | X | ~~X~~ | | -02 |
| B-217-65 | | SS ~~GW~~ | 65 | | 1650 | ~~4~~ 8 | | ~~X~~ | X | X | ~~X~~ | | -03 |
| B-217-75 | | SS ~~GW~~ | 75 | | 1730 | ~~4~~ 8 | | ~~X~~ | X | X | ~~X~~ | | -04 |
| B-217-85 | | SS | 85 | 9/6/17 | 0900 | 4 | | | X | X | | | -05 |
| B-213-90-W | | ~~GW~~ SS | 90 | | 1050 | ~~6~~ 8 | | X | ~~X~~ | ~~X~~ | X | | -06 |
| B-213-95 | | SS | 95 | | 1130 | 4 | | | X | X | | | -07 |
| B-217-95 | | SS | 95 | | 1020 | 4 | | | X | X | | | -08 |
| B-217-105 | | SS | 105 | | 1120 | 4 | | | X | X | | HOLD | ~~-09~~ |
| B-906-110 | | SS | 110 | | ~~1140~~ 1215 | 4 | | | X | X | | | -09 |

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LABORATORIES
a subsidiary of Accutest
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 193467 3

D124

Acctnum: PESENVSWA
Template: T126584
Prelogin: P613271
TSR: 110 - Brian Ford
PB:

Shipped Via: FedEx Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7474 0921 0274

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: X N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 9/6/17 | 1530 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| | | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | |

Trip Blank Received: Yes / No
1X HCL / MeoH TBR

Temp: 2.9 and 50 °C Bottles Received: EW 5963

If preservation required by Login: Date/Time

Date: 9/7/17 Time: 0845

09-015

Condition: NCF ; OK

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LAB SCIENCES
a subsidiary of Pace Analytical
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

L# L934673

Table #

Collected by (print): SHANNON McKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Acctnum: PESENVSWA
Template: T126581
Prelogin: P613267
TSR: 110 - Brian Ford
PB: 8/7/17 [illegible]
Shipped Via: FedEX 2nd Day

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~MW-~~ B-213-105 | GRAB | SS | 105 | 9/6/17 | 1215 | 4 ~~5~~ | ~~X~~ | | X | X | | ~~HOLD~~ | -10 |
| ~~MW-~~ B-213-115 | GRAB | SS | 115 | 9/6/17 | 1240 | 4 ~~5~~ | ~~X~~ | | X | X | | | -11 |
| ~~MW-~~ B-217-106 | ↓ | SS ~~GW~~ | 106 | ↓ | 1330 | 4 ~~5~~ | | ~~X~~ | X | X | ~~X~~ | | -12 |
| ~~MW-~~ B-217-115 | ↓ | SS ~~GW~~ | 115 | ↓ | 1340 | 4 ~~5~~ | | ~~X~~ | X | X | ~~X~~ | | -13 |
| ~~MW-~~ B-213-125 | ↓ | SS ~~GW~~ | 125 | ↓ | 1410 | 4 ~~5~~ | | ~~X~~ | X | X | ~~X~~ | | -14 |
| ~~MW-~~ TRIPBLANK-090617 | NA | ~~GW~~ | NA | 3/27/17 | NA | 1 ~~5~~ | | ~~X~~ | | | X | | -15 |
| MW- | | GW | | ~~2~~ | | 6 | | X | | | X | | ~~-16~~ |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # Same

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: __Y __N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| [signature] | 9/6/17 | 1530 | | 1x | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: 2.9 °C 50 | Bottles Received: 63 |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) [signature] | Date: 9/7/17 | Time: 0845 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

# MEMORANDUM

**TO:** Project File **DATE:** September 21, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.002

**TASK:** September 5-6, 2017 – Soil and Groundwater Samples

**LAB:** ESC Lab ID L934673

---

Thirteen (13) soil samples including a field duplicate, one (1) groundwater sample and a trip blank were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 5-6, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. One soil sample was placed on hold. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L934673. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in X# ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L934130, L934673, L934916, and ). The quality assurance review of the sample data associated with SDG L934673 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on September 5-6, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 2.9 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved water from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of 7 days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable and ESC's notes do not indicate any issues.

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at or above the reported detection limits (RDLs).

*NWTPH-Gx Method:*
A laboratory method blank was included with the analytical batch per method requirement. The target analyte (gasoline) was detected between the method detection limit and the reporting detection limit. No action was taken as the associated gasoline sample result is far greater than the established action criteria.

*Total Solids by SM 2540 G 2011:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (% solids) were not detected at significant levels in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was collected and submitted for analysis. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs).

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate (B-213-105 and B-906-110) results are comparable and less than 30% RPD.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results and/or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to LCS/LCSD and/or MS/MSD results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on client samples B-213-85 and B-906-110 within the analytical batches. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSD, MS/MSD, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSD, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters.

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for water.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
MS/MSD analysis was performed on client sample B-217-106. MS/MSD % Rs and RPD were within the laboratory control criteria for soils. A matrix spike was not performed on the water sample. Refer to LCS/LCSD results for precision data.

*NWTPH-Gx Method:*
MS/MSD analysis was performed on a non-client sample within the analytical batch. MS/MSD % Rs and RPD were within the laboratory control criteria for soils.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.0 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0122 | 0.0610 | 1 | 09/08/2017 23:07 | WG1018380 |
| Acrylonitrile | U | | 0.00218 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Benzene | U | | 0.000329 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Bromobenzene | U | | 0.000346 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Bromodichloromethane | U | | 0.000310 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Bromochloromethane | U | | 0.000475 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| Bromoform | U | | 0.000517 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Bromomethane | U | | 0.00163 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| n-Butylbenzene | U | | 0.000315 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| sec-Butylbenzene | U | | 0.000245 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| tert-Butylbenzene | U | | 0.000251 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Carbon disulfide | 0.000882 J | J | 0.000269 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Carbon tetrachloride | U | | 0.000400 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Chlorobenzene | U | | 0.000258 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Chlorodibromomethane | U | | 0.000455 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Chloroethane | U | | 0.00115 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| Chloroform | U | | 0.000279 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| Chloromethane | U | | 0.000457 | 0.00305 | 1 | 09/08/2017 23:07 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000367 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000293 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00128 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000418 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Dibromomethane | U | | 0.000466 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000372 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000291 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000276 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000869 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000243 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000323 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000369 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000286 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000322 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000436 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000386 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000252 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000319 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000325 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000948 | 0.00305 | 1 | 09/08/2017 23:07 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000340 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Di-isopropyl ether | U | | 0.000302 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Ethylbenzene | U | | 0.000362 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000417 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 2-Hexanone | U | | 0.00167 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |
| n-Hexane | U | | 0.000354 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Iodomethane | U | | 0.00308 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Isopropylbenzene | U | | 0.000296 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000249 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00571 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Methylene Chloride | U | | 0.00122 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00229 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000258 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Naphthalene | U | | 0.00122 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| n-Propylbenzene | U | | 0.000251 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Styrene | U | | 0.000285 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000322 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000445 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000445 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Tetrachloroethene | U | | 0.000336 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Toluene | U | | 0.000529 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000373 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000473 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000349 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000338 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Trichloroethene | U | | 0.000340 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000466 | 0.00610 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000903 | 0.00305 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000257 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000350 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000324 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Vinyl acetate | U | | 0.00291 | 0.0122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Vinyl chloride | U | | 0.000355 | 0.00122 | 1 | 09/08/2017 23:07 | WG1018380 |
| Xylenes, Total | U | | 0.000851 | 0.00366 | 1 | 09/08/2017 23:07 | WG1018380 |
| *(S) Toluene-d8* | *98.2* | | | *80.0-120* | | *09/08/2017 23:07* | WG1018380 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/08/2017 23:07* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *92.1* | | | *64.0-132* | | *09/08/2017 23:07* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.1 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0228 J | J | 0.0116 | 0.0580 | 1 | 09/08/2017 23:27 | WG1018380 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Bromochloromethane | U | | 0.000453 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| Bromoform | U | | 0.000492 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Bromomethane | U | | 0.00156 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| n-Butylbenzene | U | | 0.000300 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Carbon disulfide | 0.000321 J | J | 0.000257 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Chloroethane | U | | 0.00110 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| Chloroform | U | | 0.000266 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| Chloromethane | U | | 0.000435 | 0.00290 | 1 | 09/08/2017 23:27 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000398 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000828 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000308 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1-Dichloroethene | 0.000375 J | J | 0.000352 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| cis-1,2-Dichloroethene | 0.0787 | | 0.000273 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000306 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000903 | 0.00290 | 1 | 09/08/2017 23:27 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |
| n-Hexane | U | | 0.000337 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 2-Butanone (MEK) | 0.0155 | | 0.00543 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Methylene Chloride | U | | 0.00116 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Naphthalene | U | | 0.00116 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Toluene | U | | 0.000504 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Trichloroethene | U | | 0.000324 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00580 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000860 | 0.00290 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Vinyl chloride | 0.00462 | | 0.000338 | 0.00116 | 1 | 09/08/2017 23:27 | WG1018380 |
| Xylenes, Total | U | | 0.000810 | 0.00348 | 1 | 09/08/2017 23:27 | WG1018380 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/08/2017 23:27* | WG1018380 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/08/2017 23:27* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *91.3* | | | *64.0-132* | | *09/08/2017 23:27* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.8 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0115 | 0.0576 | 1 | 09/08/2017 23:48 | WG1018380 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Benzene | U | | 0.000311 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Bromobenzene | U | | 0.000327 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Bromochloromethane | U | | 0.000449 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| Bromoform | U | | 0.000488 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Bromomethane | U | | 0.00154 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| n-Butylbenzene | U | | 0.000297 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| tert-Butylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Carbon disulfide | 0.00111 J | J | 0.000254 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Carbon tetrachloride | U | | 0.000378 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Chlorobenzene | U | | 0.000244 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Chlorodibromomethane | U | | 0.000430 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Chloroethane | U | | 0.00109 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| Chloroform | U | | 0.000264 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| Chloromethane | U | | 0.000432 | 0.00288 | 1 | 09/08/2017 23:48 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000347 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000276 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000395 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Dibromomethane | U | | 0.000440 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000275 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000260 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000821 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000229 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000305 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1-Dichloroethene | 0.00515 | | 0.000349 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| cis-1,2-Dichloroethene | 3.14 | | 0.0136 | 0.0576 | 50 | 09/10/2017 17:21 | WG1018380 |
| trans-1,2-Dichloroethene | 0.000366 J | J | 0.000304 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000412 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000365 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000302 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000307 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000896 | 0.00288 | 1 | 09/08/2017 23:48 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000321 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Di-isopropyl ether | U | | 0.000286 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Ethylbenzene | U | | 0.000342 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000394 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |
| n-Hexane | U | | 0.000334 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Iodomethane | U | | 0.00291 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00539 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Methylene Chloride | U | | 0.00115 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Naphthalene | U | | 0.00115 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000304 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000420 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000420 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Tetrachloroethene | 0.0255 | | 0.000318 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Toluene | U | | 0.000500 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000447 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000329 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000319 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Trichloroethene | 0.00178 | | 0.000321 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000440 | 0.00576 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000853 | 0.00288 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000243 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000330 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000306 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Vinyl acetate | U | | 0.00275 | 0.0115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Vinyl chloride | 0.00259 | | 0.000335 | 0.00115 | 1 | 09/08/2017 23:48 | WG1018380 |
| Xylenes, Total | U | | 0.000804 | 0.00345 | 1 | 09/08/2017 23:48 | WG1018380 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/10/2017 17:21* | WG1018380 |
| *(S) Toluene-d8* | *97.0* | | | *80.0-120* | | *09/08/2017 23:48* | WG1018380 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/08/2017 23:48* | WG1018380 |
| *(S) Dibromofluoromethane* | *95.6* | | | *74.0-131* | | *09/10/2017 17:21* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *93.3* | | | *64.0-132* | | *09/08/2017 23:48* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *97.3* | | | *64.0-132* | | *09/10/2017 17:21* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.5 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0120 | 0.0599 | 1 | 09/09/2017 00:08 | WG1018380 |
| Acrylonitrile | U | | 0.00214 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Benzene | U | | 0.000323 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Bromobenzene | U | | 0.000340 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Bromodichloromethane | U | | 0.000304 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Bromochloromethane | U | | 0.000467 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| Bromoform | U | | 0.000508 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Bromomethane | U | | 0.00161 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| n-Butylbenzene | U | | 0.000309 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| sec-Butylbenzene | U | | 0.000241 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| tert-Butylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Carbon disulfide | 0.000452 | J J | 0.000265 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Carbon tetrachloride | U | | 0.000393 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Chlorobenzene | U | | 0.000254 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Chlorodibromomethane | U | | 0.000447 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Chloroethane | U | | 0.00113 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| Chloroform | U | | 0.000274 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| Chloromethane | U | | 0.000449 | 0.00299 | 1 | 09/09/2017 00:08 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000361 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000287 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000411 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Dibromomethane | U | | 0.000458 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000365 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000286 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000271 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000854 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000238 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000317 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000363 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000281 | 0.00120 | 1 | 09/10/2017 17:04 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000316 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000429 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000380 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000248 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000314 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000320 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000932 | 0.00299 | 1 | 09/09/2017 00:08 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000334 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Di-isopropyl ether | U | | 0.000297 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Ethylbenzene | U | | 0.000356 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000410 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 2-Hexanone | U | | 0.00164 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |
| n-Hexane | U | | 0.000347 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Iodomethane | U | | 0.00303 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Isopropylbenzene | U | | 0.000291 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000244 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00561 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Methylene Chloride | U | | 0.00120 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00225 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000254 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Naphthalene | U | | 0.00120 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| n-Propylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Styrene | U | | 0.000280 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000316 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000437 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000437 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Tetrachloroethene | U | | 0.000331 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Toluene | U | | 0.000520 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000465 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000343 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000332 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Trichloroethene | U | | 0.000334 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000458 | 0.00599 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000888 | 0.00299 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000253 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000344 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000319 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Vinyl acetate | U | | 0.00286 | 0.0120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Vinyl chloride | U | | 0.000349 | 0.00120 | 1 | 09/09/2017 00:08 | WG1018380 |
| Xylenes, Total | U | | 0.000836 | 0.00359 | 1 | 09/09/2017 00:08 | WG1018380 |
| *(S) Toluene-d8* | *95.6* | | | *80.0-120* | | *09/09/2017 00:08* | WG1018380 |
| *(S) Toluene-d8* | *92.8* | | | *80.0-120* | | *09/10/2017 17:04* | WG1018380 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/10/2017 17:04* | WG1018380 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/09/2017 00:08* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *97.2* | | | *64.0-132* | | *09/10/2017 17:04* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *94.8* | | | *64.0-132* | | *09/09/2017 00:08* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.8 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0570 | 1 | 09/09/2017 00:29 | WG1018380 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Bromobenzene | U | | 0.000324 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Bromodichloromethane | U | | 0.000289 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Bromochloromethane | U | | 0.000444 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| Bromoform | U | | 0.000483 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Bromomethane | U | | 0.00153 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Carbon disulfide | 0.000537 J | J | 0.000252 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Carbon tetrachloride | U | | 0.000374 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Chlorodibromomethane | U | | 0.000425 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Chloroethane | U | | 0.00108 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| Chloroform | U | | 0.000261 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| Chloromethane | U | | 0.000427 | 0.00285 | 1 | 09/09/2017 00:29 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000273 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Dibromomethane | U | | 0.000435 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000272 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000812 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000345 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000268 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000301 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000408 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000361 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000298 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000304 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000886 | 0.00285 | 1 | 09/09/2017 00:29 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Di-isopropyl ether | U | | 0.000283 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Ethylbenzene | U | | 0.000338 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000390 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |
| n-Hexane | U | | 0.000330 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Iodomethane | U | | 0.00288 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00533 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Methylene Chloride | U | | 0.00114 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Naphthalene | U | | 0.00114 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000416 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000416 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Tetrachloroethene | U | | 0.000314 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Toluene | U | | 0.000494 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000442 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000316 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Trichloroethene | U | | 0.000318 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000435 | 0.00570 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000844 | 0.00285 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000240 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000327 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000303 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Vinyl acetate | U | | 0.00272 | 0.0114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Vinyl chloride | U | | 0.000332 | 0.00114 | 1 | 09/09/2017 00:29 | WG1018380 |
| Xylenes, Total | U | | 0.000795 | 0.00342 | 1 | 09/09/2017 00:29 | WG1018380 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/09/2017 00:29* | WG1018380 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/09/2017 00:29* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *94.1* | | | *64.0-132* | | *09/09/2017 00:29* | WG1018380 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 712 | | 31.6 | 100 | 1 | 09/11/2017 01:55 | WG1018315 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-122* | | *09/11/2017 01:55* | WG1018315 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 9.61 J | J | 1.05 | 25.0 | 1 | 09/09/2017 15:59 | WG1018559 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| Benzene | 3.22 | | 0.0896 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Carbon disulfide | 0.166 J | J | 0.101 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Chloromethane | 1.93 | | 0.153 | 1.25 | 1 | 09/09/2017 15:59 | WG1018559 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/09/2017 15:59 | WG1018559 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 2-Butanone (MEK) | 7.90 | | 1.28 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Toluene | 436 | | 4.12 | 5.00 | 10 | 09/11/2017 01:41 | WG1018559 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/09/2017 15:59 | WG1018559 |
| Vinyl chloride | 0.424 J | J | 0.118 | 0.500 | 1 | 09/09/2017 15:59 | WG1018559 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/09/2017 15:59 | WG1018559 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/11/2017 01:41* | WG1018559 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/09/2017 15:59* | WG1018559 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/09/2017 15:59* | WG1018559 |
| *(S) Dibromofluoromethane* | *112* | | | *76.0-123* | | *09/11/2017 01:41* | WG1018559 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *80.0-120* | | *09/09/2017 15:59* | WG1018559 |
| *(S) 4-Bromofluorobenzene* | *114* | | | *80.0-120* | | *09/11/2017 01:41* | WG1018559 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.0 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0124 | 0.0618 | 1 | 09/09/2017 00:49 | WG1018380 |
| Acrylonitrile | U | | 0.00221 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Benzene | U | | 0.000334 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Bromobenzene | U | | 0.000351 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Bromodichloromethane | U | | 0.000314 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Bromochloromethane | U | | 0.000482 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| Bromoform | U | | 0.000524 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Bromomethane | U | | 0.00166 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| n-Butylbenzene | U | | 0.000319 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| sec-Butylbenzene | U | | 0.000248 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| tert-Butylbenzene | U | | 0.000254 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Carbon disulfide | U | | 0.000273 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Carbon tetrachloride | U | | 0.000405 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Chlorobenzene | U | | 0.000262 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Chlorodibromomethane | U | | 0.000461 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Chloroethane | U | | 0.00117 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| Chloroform | U | | 0.000283 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| Chloromethane | U | | 0.000463 | 0.00309 | 1 | 09/09/2017 00:49 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000372 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000296 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00130 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000424 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Dibromomethane | U | | 0.000472 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000377 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000295 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000279 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000881 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000246 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000327 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000374 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000290 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000326 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000442 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000392 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000256 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000324 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000330 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000961 | 0.00309 | 1 | 09/09/2017 00:49 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000345 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Di-isopropyl ether | U | | 0.000306 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Ethylbenzene | U | | 0.000367 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000422 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 2-Hexanone | U | | 0.00169 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |
| n-Hexane | U | | 0.000358 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Iodomethane | U | | 0.00313 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Isopropylbenzene | U | | 0.000300 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000252 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00578 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Methylene Chloride | U | | 0.00124 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00232 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000262 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Naphthalene | U | | 0.00124 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| n-Propylbenzene | U | | 0.000254 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Styrene | U | | 0.000289 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000326 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000451 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000451 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Tetrachloroethene | U | | 0.000341 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Toluene | U | | 0.000536 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000378 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000479 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000353 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000342 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Trichloroethene | U | | 0.000345 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000472 | 0.00618 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000915 | 0.00309 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000261 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000355 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000329 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Vinyl acetate | U | | 0.00295 | 0.0124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Vinyl chloride | U | | 0.000359 | 0.00124 | 1 | 09/09/2017 00:49 | WG1018380 |
| Xylenes, Total | U | | 0.000862 | 0.00371 | 1 | 09/09/2017 00:49 | WG1018380 |
| *(S) Toluene-d8* | *98.9* | | | *80.0-120* | | *09/09/2017 00:49* | WG1018380 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/09/2017 00:49* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *92.7* | | | *64.0-132* | | *09/09/2017 00:49* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.7 | | 1 | 09/13/2017 10:25 | WG1019358 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0121 | 0.0604 | 1 | 09/09/2017 01:10 | WG1018380 |
| Acrylonitrile | U | | 0.00216 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Benzene | U | | 0.000326 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Bromobenzene | U | | 0.000343 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Bromodichloromethane | U | | 0.000307 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Bromochloromethane | U | | 0.000471 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| Bromoform | U | | 0.000512 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Bromomethane | U | | 0.00162 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| n-Butylbenzene | U | | 0.000312 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| sec-Butylbenzene | U | | 0.000243 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| tert-Butylbenzene | U | | 0.000249 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Carbon disulfide | U | | 0.000267 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Carbon tetrachloride | U | | 0.000396 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Chlorobenzene | U | | 0.000256 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Chlorodibromomethane | U | | 0.000451 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Chloroethane | U | | 0.00114 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| Chloroform | U | | 0.000277 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| Chloromethane | U | | 0.000453 | 0.00302 | 1 | 09/09/2017 01:10 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000364 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000290 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00127 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000415 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Dibromomethane | U | | 0.000462 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000369 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000289 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000273 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000862 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000241 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000320 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000366 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000284 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000319 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000433 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000383 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000250 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000317 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000323 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000940 | 0.00302 | 1 | 09/09/2017 01:10 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000337 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Di-isopropyl ether | U | | 0.000300 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Ethylbenzene | U | | 0.000359 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000413 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 2-Hexanone | U | | 0.00166 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |
| n-Hexane | U | | 0.000351 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Iodomethane | U | | 0.00306 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Isopropylbenzene | U | | 0.000294 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000247 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00566 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Methylene Chloride | U | | 0.00121 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00227 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000256 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Naphthalene | U | | 0.00121 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| n-Propylbenzene | U | | 0.000249 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Styrene | U | | 0.000283 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000319 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000441 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000441 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Tetrachloroethene | 0.00111 J | J | 0.000334 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Toluene | U | | 0.000525 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000370 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000469 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000346 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000335 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Trichloroethene | U | | 0.000337 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000462 | 0.00604 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000896 | 0.00302 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000255 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000347 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000322 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Vinyl acetate | U | | 0.00289 | 0.0121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Vinyl chloride | U | | 0.000352 | 0.00121 | 1 | 09/09/2017 01:10 | WG1018380 |
| Xylenes, Total | U | | 0.000844 | 0.00363 | 1 | 09/09/2017 01:10 | WG1018380 |
| *(S) Toluene-d8* | *97.0* | | | *80.0-120* | | *09/09/2017 01:10* | WG1018380 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/09/2017 01:10* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *92.2* | | | *64.0-132* | | *09/09/2017 01:10* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.1 | | 1 | 09/13/2017 09:49 | WG1019359 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0115 | 0.0574 | 1 | 09/09/2017 01:30 | WG1018380 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Benzene | U | | 0.000310 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Bromobenzene | U | | 0.000326 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Bromochloromethane | U | | 0.000448 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| Bromoform | U | | 0.000487 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Bromomethane | U | | 0.00154 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| n-Butylbenzene | U | | 0.000296 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| tert-Butylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Carbon disulfide | U | | 0.000254 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Carbon tetrachloride | U | | 0.000377 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Chlorobenzene | U | | 0.000243 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Chlorodibromomethane | U | | 0.000428 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Chloroethane | U | | 0.00109 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| Chloroform | U | | 0.000263 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| Chloromethane | U | | 0.000431 | 0.00287 | 1 | 09/09/2017 01:30 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000346 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000276 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000394 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Dibromomethane | U | | 0.000439 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000350 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000274 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000259 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000819 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000228 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000304 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000348 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000270 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000303 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000411 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000364 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000307 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000893 | 0.00287 | 1 | 09/09/2017 01:30 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000320 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Di-isopropyl ether | U | | 0.000285 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Ethylbenzene | U | | 0.000341 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000393 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 2-Hexanone | U | | 0.00157 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |
| n-Hexane | U | | 0.000333 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Iodomethane | U | | 0.00290 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Isopropylbenzene | U | | 0.000279 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000234 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00537 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Methylene Chloride | U | | 0.00115 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000243 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Naphthalene | U | | 0.00115 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000303 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000419 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000419 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Tetrachloroethene | U | | 0.000317 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Toluene | U | | 0.000498 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000445 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000328 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000318 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Trichloroethene | U | | 0.000320 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000439 | 0.00574 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000851 | 0.00287 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000242 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000330 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000305 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Vinyl acetate | U | | 0.00274 | 0.0115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Vinyl chloride | U | | 0.000334 | 0.00115 | 1 | 09/09/2017 01:30 | WG1018380 |
| Xylenes, Total | U | | 0.000801 | 0.00344 | 1 | 09/09/2017 01:30 | WG1018380 |
| *(S) Toluene-d8* | *97.6* | | | *80.0-120* | | *09/09/2017 01:30* | WG1018380 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/09/2017 01:30* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *92.4* | | | *64.0-132* | | *09/09/2017 01:30* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.0 | | 1 | 09/13/2017 09:49 | WG1019359 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0115 | 0.0574 | 1 | 09/09/2017 01:51 | WG1018380 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Benzene | U | | 0.000310 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Bromobenzene | U | | 0.000326 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Bromochloromethane | U | | 0.000448 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| Bromoform | U | | 0.000487 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Bromomethane | U | | 0.00154 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| n-Butylbenzene | U | | 0.000296 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| tert-Butylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Carbon disulfide | U | | 0.000254 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Carbon tetrachloride | U | | 0.000377 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Chlorobenzene | U | | 0.000244 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Chlorodibromomethane | U | | 0.000429 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Chloroethane | U | | 0.00109 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| Chloroform | U | | 0.000263 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| Chloromethane | U | | 0.000431 | 0.00287 | 1 | 09/09/2017 01:51 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000346 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000276 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000394 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Dibromomethane | U | | 0.000439 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000350 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000275 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000260 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000819 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000229 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000304 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000348 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000270 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000303 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000411 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000364 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000301 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000307 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000894 | 0.00287 | 1 | 09/09/2017 01:51 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000321 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Di-isopropyl ether | U | | 0.000285 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Ethylbenzene | U | | 0.000341 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000393 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 2-Hexanone | U | | 0.00157 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |
| n-Hexane | U | | 0.000333 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Iodomethane | U | | 0.00291 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Isopropylbenzene | U | | 0.000279 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000234 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00538 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Methylene Chloride | U | | 0.00115 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Naphthalene | U | | 0.00115 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000303 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000419 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000419 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Tetrachloroethene | U | | 0.000317 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Toluene | U | | 0.000499 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000446 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000329 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000318 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Trichloroethene | U | | 0.000321 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000439 | 0.00574 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000851 | 0.00287 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000242 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000330 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000306 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Vinyl acetate | U | | 0.00275 | 0.0115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Vinyl chloride | U | | 0.000334 | 0.00115 | 1 | 09/09/2017 01:51 | WG1018380 |
| Xylenes, Total | U | | 0.000802 | 0.00345 | 1 | 09/09/2017 01:51 | WG1018380 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/09/2017 01:51* | WG1018380 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/09/2017 01:51* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *90.7* | | | *64.0-132* | | *09/09/2017 01:51* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.6 | | 1 | 09/13/2017 09:49 | WG1019359 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0123 | 0.0613 | 1 | 09/09/2017 02:11 | WG1018380 |
| Acrylonitrile | U | | 0.00219 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Benzene | U | | 0.000331 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Bromobenzene | U | | 0.000348 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Bromodichloromethane | U | | 0.000311 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Bromochloromethane | U | | 0.000478 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| Bromoform | U | | 0.000520 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Bromomethane | U | | 0.00164 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| n-Butylbenzene | U | | 0.000316 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| sec-Butylbenzene | U | | 0.000246 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| tert-Butylbenzene | U | | 0.000253 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Carbon disulfide | U | | 0.000271 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Carbon tetrachloride | U | | 0.000402 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Chlorobenzene | U | | 0.000260 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Chlorodibromomethane | U | | 0.000457 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Chloroethane | U | | 0.00116 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| Chloroform | U | | 0.000281 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| Chloromethane | U | | 0.000460 | 0.00307 | 1 | 09/09/2017 02:11 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000369 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000294 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00129 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000421 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Dibromomethane | U | | 0.000468 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000374 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000293 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000277 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000874 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000244 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000325 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000372 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000288 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000324 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000439 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000389 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000254 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000321 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000327 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000954 | 0.00307 | 1 | 09/09/2017 02:11 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000342 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Di-isopropyl ether | U | | 0.000304 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Ethylbenzene | U | | 0.000364 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000419 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 2-Hexanone | U | | 0.00168 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |
| n-Hexane | U | | 0.000356 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Iodomethane | U | | 0.00310 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Isopropylbenzene | U | | 0.000298 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000250 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00574 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Methylene Chloride | U | | 0.00123 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00231 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000260 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Naphthalene | U | | 0.00123 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| n-Propylbenzene | U | | 0.000253 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Styrene | U | | 0.000287 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000324 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000448 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000448 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Tetrachloroethene | U | | 0.000338 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Toluene | U | | 0.000532 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000375 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000476 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000351 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000340 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Trichloroethene | U | | 0.000342 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000468 | 0.00613 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000909 | 0.00307 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000259 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000352 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000326 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Vinyl acetate | U | | 0.00293 | 0.0123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Vinyl chloride | U | | 0.000357 | 0.00123 | 1 | 09/09/2017 02:11 | WG1018380 |
| Xylenes, Total | U | | 0.000856 | 0.00368 | 1 | 09/09/2017 02:11 | WG1018380 |
| *(S) Toluene-d8* | *99.3* | | | *80.0-120* | | *09/09/2017 02:11* | WG1018380 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/09/2017 02:11* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *93.6* | | | *64.0-132* | | *09/09/2017 02:11* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.6 | | 1 | 09/13/2017 09:49 | WG1019359 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 1.23 | 6.13 | 100 | 09/09/2017 02:32 | WG1018380 |
| Acrylonitrile | U | | 0.219 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |
| Benzene | U | | 0.0331 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Bromobenzene | U | | 0.0348 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Bromodichloromethane | U | | 0.0311 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Bromochloromethane | U | | 0.0478 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| Bromoform | U | | 0.0520 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Bromomethane | U | | 0.164 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| n-Butylbenzene | U | | 0.0316 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| sec-Butylbenzene | U | | 0.0246 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| tert-Butylbenzene | U | | 0.0252 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Carbon disulfide | U | | 0.0271 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Carbon tetrachloride | U | | 0.0402 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Chlorobenzene | U | | 0.0260 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Chlorodibromomethane | U | | 0.0457 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Chloroethane | U | | 0.116 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| Chloroform | U | | 0.0281 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| Chloromethane | U | | 0.0460 | 0.306 | 100 | 09/09/2017 02:32 | WG1018380 |
| 2-Chlorotoluene | U | | 0.0369 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 4-Chlorotoluene | U | | 0.0294 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.129 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.0420 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Dibromomethane | U | | 0.0468 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.0374 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.0293 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.0277 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.0874 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.0244 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.0325 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.0371 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.0288 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.0324 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.0439 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.0389 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.0254 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.0321 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.0327 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.0954 | 0.306 | 100 | 09/09/2017 02:32 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.0342 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Di-isopropyl ether | U | | 0.0304 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Ethylbenzene | U | | 0.0364 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.0419 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 2-Hexanone | U | | 0.168 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |
| n-Hexane | U | | 0.0355 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |
| Iodomethane | U | | 0.310 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |
| Isopropylbenzene | U | | 0.0298 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| p-Isopropyltoluene | U | | 0.0250 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.574 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |
| Methylene Chloride | U | | 0.123 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.230 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0260 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Naphthalene | U | | 0.123 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| n-Propylbenzene | U | | 0.0252 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Styrene | U | | 0.0287 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0324 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0447 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0447 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Tetrachloroethene | 5.18 | | 0.0338 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Toluene | U | | 0.0532 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.0375 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.0476 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.0351 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.0339 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Trichloroethene | 0.704 | | 0.0342 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Trichlorofluoromethane | U | | 0.0468 | 0.613 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.0908 | 0.306 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.0259 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.0352 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.0326 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Vinyl acetate | U | | 0.293 | 1.23 | 100 | 09/09/2017 02:32 | WG1018380 |
| Vinyl chloride | U | | 0.0357 | 0.123 | 100 | 09/09/2017 02:32 | WG1018380 |
| Xylenes, Total | U | | 0.0855 | 0.368 | 100 | 09/09/2017 02:32 | WG1018380 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/09/2017 02:32* | WG1018380 |
| *(S) Dibromofluoromethane* | *98.3* | | | *74.0-131* | | *09/09/2017 02:32* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *97.1* | | | *64.0-132* | | *09/09/2017 02:32* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.6 | | 1 | 09/13/2017 09:49 | WG1019359 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0115 | 0.0577 | 1 | 09/09/2017 02:52 | WG1018380 |
| Acrylonitrile | U | | 0.00207 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Benzene | U | | 0.000312 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Bromobenzene | U | | 0.000328 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Bromodichloromethane | U | | 0.000293 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Bromochloromethane | U | | 0.000450 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| Bromoform | U | | 0.000490 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Bromomethane | U | | 0.00155 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| n-Butylbenzene | U | | 0.000298 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| sec-Butylbenzene | U | | 0.000232 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| tert-Butylbenzene | U | | 0.000238 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Carbon disulfide | U | | 0.000255 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Carbon tetrachloride | U | | 0.000379 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Chlorobenzene | U | | 0.000245 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Chlorodibromomethane | U | | 0.000431 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Chloroethane | U | | 0.00109 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| Chloroform | U | | 0.000264 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| Chloromethane | U | | 0.000433 | 0.00289 | 1 | 09/09/2017 02:52 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000348 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000277 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000396 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Dibromomethane | U | | 0.000441 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000276 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000261 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.000823 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000306 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000350 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000271 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000305 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000413 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000366 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000239 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000303 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000308 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.000898 | 0.00289 | 1 | 09/09/2017 02:52 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000322 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Di-isopropyl ether | U | | 0.000286 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Ethylbenzene | U | | 0.000343 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000395 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |
| n-Hexane | U | | 0.000335 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Iodomethane | U | | 0.00292 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Isopropylbenzene | U | | 0.000281 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00540 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Methylene Chloride | U | | 0.00115 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00217 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000245 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Naphthalene | U | | 0.00115 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| n-Propylbenzene | U | | 0.000238 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Styrene | U | | 0.000270 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000305 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000421 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000421 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Tetrachloroethene | U | | 0.000319 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Toluene | U | | 0.000501 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000353 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000448 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000330 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000320 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Trichloroethene | U | | 0.000322 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000441 | 0.00577 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.000856 | 0.00289 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000331 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000307 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Vinyl acetate | U | | 0.00276 | 0.0115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Vinyl chloride | U | | 0.000336 | 0.00115 | 1 | 09/09/2017 02:52 | WG1018380 |
| Xylenes, Total | U | | 0.000806 | 0.00346 | 1 | 09/09/2017 02:52 | WG1018380 |
| *(S) Toluene-d8* | *98.1* | | | *80.0-120* | | *09/09/2017 02:52* | WG1018380 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/09/2017 02:52* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *91.5* | | | *64.0-132* | | *09/09/2017 02:52* | WG1018380 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.9 | | 1 | 09/13/2017 09:49 | WG1019359 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0148 | 0.0740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Acrylonitrile | U | | 0.00265 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Benzene | U | | 0.000400 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Bromobenzene | U | | 0.000420 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Bromodichloromethane | U | | 0.000376 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Bromochloromethane | U | | 0.000577 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Bromoform | U | | 0.000628 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Bromomethane | U | | 0.00198 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| n-Butylbenzene | U | | 0.000382 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| sec-Butylbenzene | U | | 0.000297 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| tert-Butylbenzene | U | | 0.000305 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Carbon disulfide | 0.000628 J | J | 0.000327 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Carbon tetrachloride | U | | 0.000485 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Chlorobenzene | U | | 0.000314 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Chlorodibromomethane | U | | 0.000552 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Chloroethane | U | | 0.00140 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Chloroform | U | | 0.000339 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Chloromethane | U | | 0.000555 | 0.00370 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 2-Chlorotoluene | U | | 0.000445 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 4-Chlorotoluene | U | | 0.000355 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00156 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2-Dibromoethane | U | | 0.000507 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Dibromomethane | U | | 0.000566 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2-Dichlorobenzene | U | | 0.000452 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,3-Dichlorobenzene | U | | 0.000354 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,4-Dichlorobenzene | U | | 0.000334 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Dichlorodifluoromethane | U | | 0.00106 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1-Dichloroethane | U | | 0.000295 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2-Dichloroethane | U | | 0.000392 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1-Dichloroethene | U | | 0.000448 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| cis-1,2-Dichloroethene | U | | 0.000348 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| trans-1,2-Dichloroethene | U | | 0.000391 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2-Dichloropropane | U | | 0.000530 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1-Dichloropropene | U | | 0.000469 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,3-Dichloropropane | U | | 0.000307 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| cis-1,3-Dichloropropene | U | | 0.000388 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| trans-1,3-Dichloropropene | U | | 0.000395 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| trans-1,4-Dichloro-2-butene | U | | 0.00115 | 0.00370 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 2,2-Dichloropropane | U | | 0.000413 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Di-isopropyl ether | U | | 0.000367 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Ethylbenzene | U | | 0.000440 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Hexachloro-1,3-butadiene | U | | 0.000506 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 2-Hexanone | U | | 0.00202 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| n-Hexane | U | | 0.000429 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Iodomethane | U | | 0.00374 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Isopropylbenzene | U | | 0.000359 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| p-Isopropyltoluene | U | | 0.000302 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 2-Butanone (MEK) | U | | 0.00692 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Methylene Chloride | U | | 0.00148 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00279 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000314 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Naphthalene | U | | 0.00148 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| n-Propylbenzene | U | | 0.000305 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Styrene | U | | 0.000346 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000391 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000540 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000540 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Tetrachloroethene | U | | 0.000408 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Toluene | U | | 0.000642 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2,3-Trichlorobenzene | U | | 0.000453 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2,4-Trichlorobenzene | U | | 0.000575 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1,1-Trichloroethane | U | | 0.000423 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,1,2-Trichloroethane | U | | 0.000410 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Trichloroethene | U | | 0.000413 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Trichlorofluoromethane | U | | 0.000566 | 0.00740 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2,3-Trichloropropane | U | | 0.00110 | 0.00370 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2,4-Trimethylbenzene | U | | 0.000312 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,2,3-Trimethylbenzene | U | | 0.000425 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| 1,3,5-Trimethylbenzene | U | | 0.000394 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Vinyl acetate | U | | 0.00354 | 0.0148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Vinyl chloride | U | | 0.000431 | 0.00148 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| Xylenes, Total | U | | 0.00103 | 0.00444 | 1.36 | 09/09/2017 03:13 | WG1018380 |
| *(S) Toluene-d8* | *97.0* | | | *80.0-120* | | *09/09/2017 03:13* | WG1018380 |
| *(S) Dibromofluoromethane* | *99.4* | | | *74.0-131* | | *09/09/2017 03:13* | WG1018380 |
| *(S) 4-Bromofluorobenzene* | *92.4* | | | *64.0-132* | | *09/09/2017 03:13* | WG1018380 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1.05 | 25.0 | 1 | 09/09/2017 13:30 | WG1018559 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/09/2017 13:30 | WG1018559 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/09/2017 13:30 | WG1018559 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/09/2017 13:30 | WG1018559 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/09/2017 13:30 | WG1018559 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/09/2017 13:30 | WG1018559 |
| *(S) Toluene-d8* | *99.6* | | | *80.0-120* | | *09/09/2017 13:30* | WG1018559 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/09/2017 13:30* | WG1018559 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *80.0-120* | | *09/09/2017 13:30* | WG1018559 |

# ANALYTICAL REPORT

September 12, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L934916 |
| Samples Received: | 09/02/2017 |
| Project Number: | 1413.001.02.002 |
| Description: | American Linen Supply |
| Site: | 1413.001.02.002 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## MW-137-107-W L934916-01 GW

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 09/01/17 11:30 | 09/02/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1019041 | 1 | 09/11/17 21:47 | 09/11/17 21:47 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018559 | 1 | 09/09/17 16:21 | 09/09/17 16:21 | BMB |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 | 1 | 09/11/2017 21:47 | WG1019041 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.8* | | | *77.0-122* | | *09/11/2017 21:47* | WG1019041 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 1.74 | J | 1.05 | 25.0 | 1 | 09/09/2017 16:21 | WG1018559 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/09/2017 16:21 | WG1018559 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/09/2017 16:21 | WG1018559 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 2-Butanone (MEK) | 1.58 | J | 1.28 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Toluene | 41.1 | | 0.412 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| *(S) Toluene-d8* | *98.7* | | | *80.0-120* | | *09/09/2017 16:21* | WG1018559 |
| *(S) Dibromofluoromethane* | *103* | | | *76.0-123* | | *09/09/2017 16:21* | WG1018559 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *80.0-120* | | *09/09/2017 16:21* | WG1018559 |

## Method Blank (MB)

(MB) R3248641-3 09/11/17 20:41

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-122* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248641-1 09/11/17 19:34 • (LCSD) R3248641-2 09/11/17 19:56

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 5150 | 5630 | 93.7 | 102 | 72.0-134 | | | 8.80 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *104* | *106* | *77.0-122* | | | | |

## L934883-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L934883-01 09/12/17 10:34 • (MS) R3248641-4 09/12/17 10:56 • (MSD) R3248641-5 09/12/17 11:19

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | U | 4160 | 4210 | 75.7 | 76.6 | 1 | 23.0-159 | | | 1.28 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *99.8* | *98.7* | | *77.0-122* | | | | |

## Method Blank (MB)

(MB) R3248093-3 09/09/17 11:50

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3248093-3 09/09/17 11:50

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *99.6* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *107* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248093-1 09/09/17 10:45 • (LCSD) R3248093-2 09/09/17 11:06

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 139 | 138 | 111 | 110 | 10.0-160 | | | 0.380 | 23 |
| Acrylonitrile | 125 | 148 | 146 | 119 | 116 | 60.0-142 | | | 1.79 | 20 |
| Benzene | 25.0 | 25.0 | 25.3 | 99.8 | 101 | 69.0-123 | | | 1.35 | 20 |
| Bromobenzene | 25.0 | 26.1 | 26.6 | 105 | 106 | 79.0-120 | | | 1.62 | 20 |
| Bromodichloromethane | 25.0 | 26.6 | 27.3 | 106 | 109 | 76.0-120 | | | 2.41 | 20 |
| Bromochloromethane | 25.0 | 24.8 | 25.7 | 99.4 | 103 | 76.0-122 | | | 3.23 | 20 |
| Bromoform | 25.0 | 28.0 | 27.5 | 112 | 110 | 67.0-132 | | | 2.06 | 20 |
| Bromomethane | 25.0 | 22.4 | 21.9 | 89.8 | 87.7 | 18.0-160 | | | 2.28 | 20 |
| n-Butylbenzene | 25.0 | 23.4 | 24.2 | 93.5 | 97.0 | 72.0-126 | | | 3.60 | 20 |
| sec-Butylbenzene | 25.0 | 25.4 | 26.0 | 102 | 104 | 74.0-121 | | | 2.32 | 20 |
| tert-Butylbenzene | 25.0 | 24.5 | 25.0 | 98.0 | 99.9 | 75.0-122 | | | 1.91 | 20 |
| Carbon disulfide | 25.0 | 23.6 | 24.1 | 94.5 | 96.4 | 55.0-127 | | | 1.99 | 20 |
| Carbon tetrachloride | 25.0 | 23.7 | 25.2 | 94.9 | 101 | 63.0-122 | | | 5.84 | 20 |
| Chlorobenzene | 25.0 | 23.3 | 23.3 | 93.4 | 93.4 | 79.0-121 | | | 0.0100 | 20 |
| Chlorodibromomethane | 25.0 | 25.2 | 25.0 | 101 | 100 | 75.0-125 | | | 0.610 | 20 |
| Chloroethane | 25.0 | 21.4 | 21.6 | 85.4 | 86.3 | 47.0-152 | | | 1.07 | 20 |
| Chloroform | 25.0 | 25.5 | 25.9 | 102 | 104 | 72.0-121 | | | 1.39 | 20 |
| Chloromethane | 25.0 | 22.1 | 23.1 | 88.5 | 92.5 | 48.0-139 | | | 4.42 | 20 |
| 2-Chlorotoluene | 25.0 | 25.2 | 25.8 | 101 | 103 | 74.0-122 | | | 2.12 | 20 |
| 4-Chlorotoluene | 25.0 | 25.6 | 26.0 | 102 | 104 | 79.0-120 | | | 1.50 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 25.4 | 24.5 | 102 | 98.0 | 64.0-127 | | | 3.64 | 20 |
| 1,2-Dibromoethane | 25.0 | 24.9 | 25.1 | 99.7 | 100 | 77.0-123 | | | 0.690 | 20 |
| Dibromomethane | 25.0 | 26.3 | 26.3 | 105 | 105 | 78.0-120 | | | 0.0300 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 24.3 | 24.7 | 97.3 | 98.7 | 80.0-120 | | | 1.43 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 24.5 | 25.0 | 98.1 | 100 | 72.0-123 | | | 2.06 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 23.7 | 23.9 | 94.7 | 95.6 | 77.0-120 | | | 0.940 | 20 |
| Dichlorodifluoromethane | 25.0 | 22.8 | 24.0 | 91.0 | 95.9 | 49.0-155 | | | 5.19 | 20 |
| 1,1-Dichloroethane | 25.0 | 26.3 | 26.7 | 105 | 107 | 70.0-126 | | | 1.66 | 20 |
| 1,2-Dichloroethane | 25.0 | 27.8 | 27.8 | 111 | 111 | 67.0-126 | | | 0.310 | 20 |
| 1,1-Dichloroethene | 25.0 | 24.1 | 24.5 | 96.5 | 98.2 | 64.0-129 | | | 1.70 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 24.7 | 25.0 | 98.7 | 100 | 73.0-120 | | | 1.49 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 24.2 | 24.8 | 96.9 | 99.0 | 71.0-121 | | | 2.16 | 20 |
| 1,2-Dichloropropane | 25.0 | 27.5 | 27.9 | 110 | 112 | 75.0-125 | | | 1.45 | 20 |
| 1,1-Dichloropropene | 25.0 | 24.9 | 25.3 | 99.6 | 101 | 71.0-129 | | | 1.57 | 20 |
| 1,3-Dichloropropane | 25.0 | 25.1 | 25.1 | 100 | 101 | 80.0-121 | | | 0.140 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 26.7 | 27.0 | 107 | 108 | 79.0-123 | | | 1.02 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 26.4 | 26.4 | 106 | 105 | 74.0-127 | | | 0.170 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 22.5 | 22.0 | 90.0 | 87.9 | 55.0-134 | | | 2.31 | 20 |
| 2,2-Dichloropropane | 25.0 | 23.2 | 23.3 | 92.6 | 93.2 | 60.0-125 | | | 0.650 | 20 |
| Di-isopropyl ether | 25.0 | 27.1 | 27.6 | 108 | 110 | 59.0-133 | | | 1.81 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248093-1 09/09/17 10:45 • (LCSD) R3248093-2 09/09/17 11:06

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 22.1 | 22.7 | 88.5 | 90.6 | 77.0-120 | | | 2.39 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 20.4 | 22.3 | 81.7 | 89.3 | 64.0-131 | | | 8.87 | 20 |
| 2-Hexanone | 125 | 139 | 137 | 112 | 109 | 58.0-147 | | | 1.89 | 20 |
| n-Hexane | 25.0 | 21.9 | 22.9 | 87.7 | 91.4 | 56.0-124 | | | 4.19 | 20 |
| Iodomethane | 125 | 119 | 122 | 95.3 | 97.3 | 57.0-140 | | | 2.01 | 20 |
| Isopropylbenzene | 25.0 | 25.1 | 25.5 | 100 | 102 | 75.0-120 | | | 1.49 | 20 |
| p-Isopropyltoluene | 25.0 | 25.4 | 26.0 | 102 | 104 | 74.0-126 | | | 2.53 | 20 |
| 2-Butanone (MEK) | 125 | 138 | 136 | 110 | 109 | 37.0-158 | | | 0.950 | 20 |
| Methylene Chloride | 25.0 | 24.7 | 25.0 | 99.0 | 100 | 66.0-121 | | | 1.00 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 141 | 138 | 113 | 111 | 59.0-143 | | | 1.62 | 20 |
| Methyl tert-butyl ether | 25.0 | 25.9 | 26.2 | 104 | 105 | 64.0-123 | | | 1.35 | 20 |
| Naphthalene | 25.0 | 24.4 | 25.1 | 97.7 | 100 | 62.0-128 | | | 2.64 | 20 |
| n-Propylbenzene | 25.0 | 25.6 | 26.0 | 102 | 104 | 79.0-120 | | | 1.67 | 20 |
| Styrene | 25.0 | 27.7 | 28.1 | 111 | 112 | 78.0-124 | | | 1.43 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 23.9 | 23.9 | 95.5 | 95.7 | 75.0-122 | | | 0.220 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 28.1 | 27.8 | 112 | 111 | 71.0-122 | | | 1.04 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 23.2 | 23.9 | 92.9 | 95.6 | 61.0-136 | | | 2.85 | 20 |
| Tetrachloroethene | 25.0 | 22.2 | 22.5 | 88.8 | 89.9 | 70.0-127 | | | 1.19 | 20 |
| Toluene | 25.0 | 22.7 | 23.0 | 90.9 | 91.9 | 77.0-120 | | | 1.08 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 21.8 | 22.8 | 87.4 | 91.3 | 61.0-133 | | | 4.43 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 21.5 | 22.3 | 85.8 | 89.2 | 69.0-129 | | | 3.78 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 25.5 | 25.9 | 102 | 103 | 68.0-122 | | | 1.44 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 24.2 | 24.3 | 96.8 | 97.0 | 78.0-120 | | | 0.240 | 20 |
| Trichloroethene | 25.0 | 24.5 | 24.6 | 97.9 | 98.4 | 78.0-120 | | | 0.490 | 20 |
| Trichlorofluoromethane | 25.0 | 22.2 | 22.8 | 88.7 | 91.0 | 56.0-137 | | | 2.55 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 28.3 | 28.0 | 113 | 112 | 72.0-124 | | | 1.05 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 25.6 | 25.9 | 102 | 104 | 75.0-120 | | | 1.23 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 23.2 | 23.6 | 92.7 | 94.3 | 75.0-120 | | | 1.70 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 25.1 | 25.6 | 101 | 103 | 75.0-120 | | | 2.06 | 20 |
| Vinyl acetate | 125 | 127 | 120 | 101 | 96.2 | 46.0-160 | | | 5.22 | 20 |
| Vinyl chloride | 25.0 | 22.8 | 24.0 | 91.2 | 95.9 | 64.0-133 | | | 5.04 | 20 |
| Xylenes, Total | 75.0 | 68.2 | 69.3 | 90.9 | 92.4 | 77.0-120 | | | 1.60 | 20 |
| *(S) Toluene-d8* | | | | *96.7* | *96.6* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *102* | *101* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *105* | *106* | *80.0-120* | | | | |

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| MDL | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

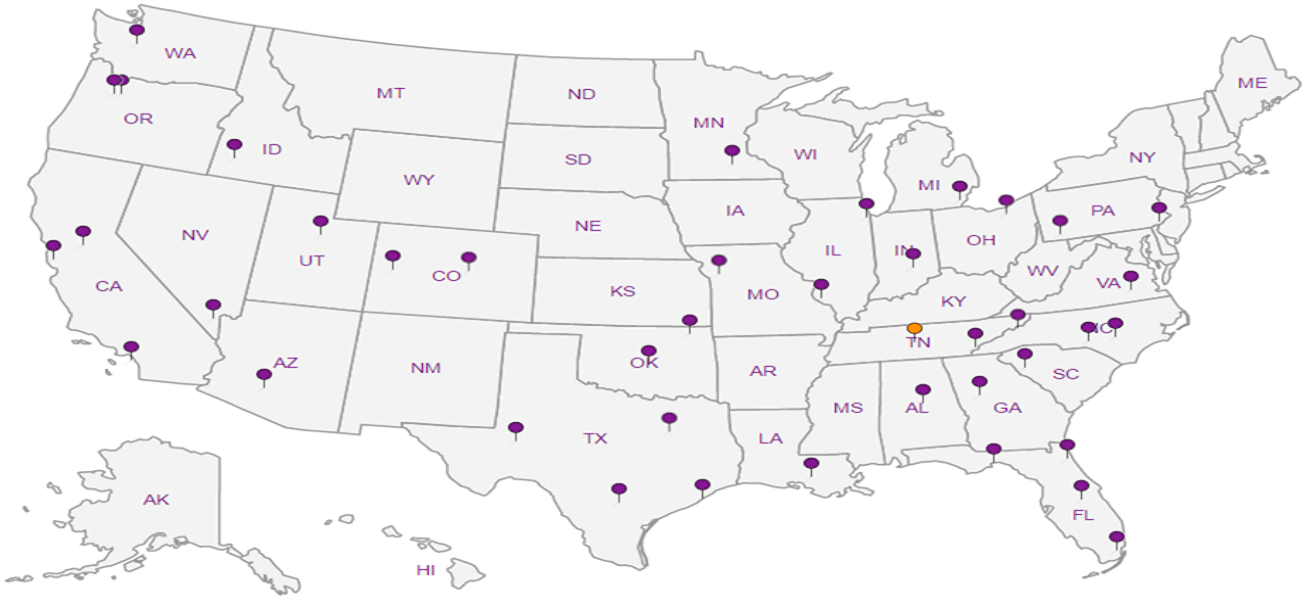
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LAB SCIENCES
a subsidiary of Pace Analytical
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project #: 1413.001.02.602

Lab Project #: PESENVSWA-ALP

L# ~~933742~~ N 9/8/17

B141 L934916

Collected by (print): SHANNON McKERNAN

Site/Facility ID #: 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice: N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Account: PESENVSWA
Template: T126584
Prelogin: P613271
TSR: 110 - Brian Ford
PB:
Shipped Via: FedEX Ground

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B- MW-137-85 | GRAB | SS GW | 85 | 09/01/17 | 0820 | 5 ~~3~~ | X | | X | X | ~~X~~ | | ~~-01~~ |
| B- MW-137-95 | | SS | 95 | | 0900 | 5 ~~4~~ | X | | X | X | | | ~~-02~~ |
| B- 216-20 | | SS | 20 | | 0915 | 4 | | | X | X | | | ~~-03~~ |
| B- 216-13 | | SS | 13 | | 0930 | 4 | | | X | X | | HOLD | |
| B- 216-40 | | SS | 40 | | 1010 | 4 | | | X | X | | | ~~-04~~ |
| B- MW-147-107-W | | GW ~~SS~~ | 107 | | 1130 | 6 ~~4~~ | | X | ~~X~~ | ~~X~~ | X | HOLD | -01 |
| B- B-216-50 | | SS | 50 | | 1035 | 4 | | | X | X | | | ~~-05~~ |
| B- MW-137-115 | | SS GW | 115 | | 1145 | 5 ~~3~~ | X | | X | X | ~~X~~ | | ~~-06~~ |
| B- 216-65 | | SS GW | 65 | | 1145 | 4 ~~3~~ | | | X | X | ~~X~~ | | ~~-07~~ |
| B- 216-55 | | SS | 55 | | 1215 | 4 | | | X | X | | | ~~-08~~ |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other _____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7474 0921 0366

Sample Receipt Checklist
COC Seal Present/Intact: __ NP ✓ Y __ N
COC Signed/Accurate: ✓ Y __ N
Bottles arrive intact: ✓ Y __ N
Correct bottles used: ✓ Y __ N
Sufficient volume sent: ✓ Y __ N
If Applicable
VOA Zero Headspace: ✓ Y __ N
Preservation Correct/Checked: ✓ Y __ N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeOH TBR | |
|---|---|---|---|---|---|
| | 9/1/17 | 1500 | | | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: 2.0 °C MSL 50 | Bottles Received: 52 |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 9/2/17 | Time: 0845 |

If preservation required by Login: Date/Time

8-218

Condition: NCF / OK

## Andy Vann

**From:** Brian Ford
**Sent:** Friday, September 08, 2017 1:57 PM
**To:** Login; Sample Storage; Brian Ford
**Subject:** L933742 *PESENVSWA* log off hold

Please log off hold label 8-218. Log as R5 due 09/15.

MW-137-107-W for V8260LLC and NWTPHGX.

This sample was accidentally listed on the COC as MW-147-107-W. MW-137-107-W is the correct sample ID and the containers should be labeled correctly.

Thanks,

Brian Ford
*Technical Service Representative*
**ESC Lab Sciences**-a subsidiary of Pace Analytical
12065 Lebanon Road | Mt. Juliet, TN 37122
615.773.9772 | Cell 931.510.2229
bford@esclabsciences.com | www.esclabsciences.com

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# MEMORANDUM

**TO:** Project File **DATE:** September 21, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.002

**TASK:** September 1, 2017 – Groundwater Sample

**LAB:** ESC Lab ID L934916

---

One (1) groundwater sample was collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 1, 2017. The sample was shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;

The results are reported in ESC Sample Delivery Group (SDG) L934916. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in X# ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L934130, L934673, L934916, and ). The quality assurance review of the sample data associated with SDG L934916 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

The sample was collected and analyzed as requested with the following discussion:

- Chain of custody and a communication record (9/8/2017) between PES and ESC indicate that sample MW-147-107-W (L934916-01) should be corrected to read MW-1**3**7-107-W.

- Chain of custody shows that nine soil samples were collected and submitted. It appears that the samples were received on September 2, 2017. ESC was contacted and confirmed that soil results are associated with SDG L933742.

## Sample Collection and Preservation

Samples were collected on September 1, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 2.0 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for preserved water from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable and ESC does not indicate any calibration issues.

## Method Blank Results

*USEPA Method 8260C:*
A laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs).

*NWTPH-Gx Method:*
A laboratory method blank was included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blank at or above the RDL.

## Trip Blank Results

*USEPA Method 8260C and NWTPH-Gx:*
A trip blank was not collected.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicates were not collected.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to LCS/LCSD and/or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSD, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSD, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for water.

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for water.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
MS/MSD analysis was not performed. Refer to LCS/LCSD results for accuracy and precision data.

*NWTPH-Gx Method:*
MS/MSD analysis were performed on a non-client sample. MS/MSD % Rs and RPD were within the laboratory control criteria for waters.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data are judged to be acceptable for their intended use.

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 | 1 | 09/11/2017 21:47 | WG1019041 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.8* | | | *77.0-122* | | *09/11/2017 21:47* | WG1019041 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 1.74 J | J | 1.05 | 25.0 | 1 | 09/09/2017 16:21 | WG1018559 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/09/2017 16:21 | WG1018559 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/09/2017 16:21 | WG1018559 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 2-Butanone (MEK) | 1.58 J | J | 1.28 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |

JC 9/21/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Toluene | 41.1 | | 0.412 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/09/2017 16:21 | WG1018559 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/09/2017 16:21 | WG1018559 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/09/2017 16:21 | WG1018559 |
| *(S) Toluene-d8* | *98.7* | | | *80.0-120* | | *09/09/2017 16:21* | WG1018559 |
| *(S) Dibromofluoromethane* | *103* | | | *76.0-123* | | *09/09/2017 16:21* | WG1018559 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *80.0-120* | | *09/09/2017 16:21* | WG1018559 |

JC 9/21/17

# ANALYTICAL REPORT

September 19, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L935150 |
| Samples Received: | 09/09/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-214-15 L935150-01 Solid

Collected by: Shannon McKernan | Collected date/time: 09/07/17 10:30 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020007 | 1 | 09/14/17 11:43 | 09/14/17 11:54 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018676 | 1 | 09/07/17 10:30 | 09/17/17 14:13 | JHH |

## B-214-25 L935150-02 Solid

Collected by: Shannon McKernan | Collected date/time: 09/07/17 10:55 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020007 | 1 | 09/14/17 11:43 | 09/14/17 11:54 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018676 | 1 | 09/07/17 10:55 | 09/17/17 14:54 | JHH |

## B-214-35 L935150-03 Solid

Collected by: Shannon McKernan | Collected date/time: 09/07/17 11:20 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020007 | 1 | 09/14/17 11:43 | 09/14/17 11:54 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018676 | 1 | 09/07/17 11:20 | 09/17/17 15:13 | JHH |

## B-214-45 L935150-04 Solid

Collected by: Shannon McKernan | Collected date/time: 09/07/17 11:50 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020007 | 1 | 09/14/17 11:43 | 09/14/17 11:54 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018676 | 1 | 09/07/17 11:50 | 09/17/17 15:33 | JHH |

## B-214-55 L935150-05 Solid

Collected by: Shannon McKernan | Collected date/time: 09/07/17 14:00 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020007 | 1 | 09/14/17 11:43 | 09/14/17 11:54 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018676 | 1 | 09/07/17 14:00 | 09/17/17 15:53 | JHH |

## B-212-15 L935150-06 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 10:10 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020007 | 1 | 09/14/17 11:43 | 09/14/17 11:54 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1018994 | 25 | 09/08/17 10:10 | 09/14/17 01:36 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018676 | 1 | 09/08/17 10:10 | 09/17/17 16:12 | JHH |

## B-212-21 L935150-07 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 10:25 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020007 | 1 | 09/14/17 11:43 | 09/14/17 11:54 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1018994 | 25 | 09/08/17 10:25 | 09/14/17 01:58 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018676 | 1 | 09/08/17 10:25 | 09/17/17 16:32 | JHH |

## B-212-35 L935150-08 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 10:45 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020015 | 1 | 09/14/17 11:55 | 09/14/17 12:11 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1018994 | 25 | 09/08/17 10:45 | 09/14/17 02:20 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018676 | 1 | 09/08/17 10:45 | 09/17/17 16:51 | JHH |

## B-212-45 L935150-09 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 11:15 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020015 | 1 | 09/14/17 11:55 | 09/14/17 12:11 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1018994 | 25 | 09/08/17 11:15 | 09/14/17 02:43 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018676 | 1 | 09/08/17 11:15 | 09/17/17 17:11 | JHH |

## B-212-55 L935150-10 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 11:45 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020015 | 1 | 09/14/17 11:55 | 09/14/17 12:11 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1018994 | 25 | 09/08/17 11:45 | 09/12/17 19:46 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1018676 | 1 | 09/08/17 11:45 | 09/17/17 17:31 | JHH |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.3 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0107 | 0.0536 | 1 | 09/17/2017 14:13 | WG1018676 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Benzene | U | | 0.000290 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Bromobenzene | U | | 0.000305 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Bromochloromethane | U | | 0.000418 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 |
| Bromoform | U | | 0.000455 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Bromomethane | U | | 0.00144 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 |
| n-Butylbenzene | U | | 0.000277 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| sec-Butylbenzene | U | | 0.000216 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Carbon disulfide | 0.000244 | J | 0.000237 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Carbon tetrachloride | U | | 0.000352 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Chlorodibromomethane | U | | 0.000400 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Chloroethane | U | | 0.00101 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 |
| Chloroform | U | | 0.000246 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 |
| Chloromethane | U | | 0.000402 | 0.00268 | 1 | 09/17/2017 14:13 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000323 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000368 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Dibromomethane | U | | 0.000410 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000765 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000325 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| cis-1,2-Dichloroethene | U | J4 | 0.000252 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000283 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000384 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000340 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000834 | 0.00268 | 1 | 09/17/2017 14:13 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000299 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Di-isopropyl ether | U | J0 | 0.000266 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000367 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 |
| n-Hexane | U | | 0.000311 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Isopropylbenzene | U | | 0.000261 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000219 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00502 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Methylene Chloride | U | | 0.00107 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Naphthalene | U | | 0.00107 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000283 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000391 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000391 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Tetrachloroethene | U | | 0.000296 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Toluene | U | | 0.000465 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000416 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000307 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000297 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Trichloroethene | U | | 0.000299 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000410 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000795 | 0.00268 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.000308 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Vinyl chloride | U | | 0.000312 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Xylenes, Total | U | | 0.000748 | 0.00322 | 1 | 09/17/2017 14:13 | WG1018676 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/17/2017 14:13* | WG1018676 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/17/2017 14:13* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *09/17/2017 14:13* | WG1018676 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.6 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0106 | 0.0528 | 1 | 09/17/2017 14:54 | WG1018676 |
| Acrylonitrile | U | | 0.00189 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Benzene | U | | 0.000285 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Bromobenzene | U | | 0.000300 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Bromodichloromethane | U | | 0.000268 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Bromochloromethane | U | | 0.000412 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| Bromoform | U | | 0.000448 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Bromomethane | U | | 0.00142 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| n-Butylbenzene | U | | 0.000273 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| sec-Butylbenzene | U | | 0.000212 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| tert-Butylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Carbon disulfide | U | | 0.000234 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Carbon tetrachloride | U | | 0.000347 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Chlorobenzene | U | | 0.000224 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Chlorodibromomethane | U | | 0.000394 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Chloroethane | U | | 0.00100 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| Chloroform | U | | 0.000242 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| Chloromethane | U | | 0.000396 | 0.00264 | 1 | 09/17/2017 14:54 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000318 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000254 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000363 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Dibromomethane | U | | 0.000404 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000322 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000253 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000239 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000754 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000210 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000280 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000320 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| cis-1,2-Dichloroethene | U | J4 | 0.000248 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000279 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000378 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000335 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000219 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000277 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000282 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000822 | 0.00264 | 1 | 09/17/2017 14:54 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000295 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Di-isopropyl ether | U | J0 | 0.000262 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Ethylbenzene | U | | 0.000314 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000361 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 2-Hexanone | U | | 0.00145 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |
| n-Hexane | 0.000623 | J | 0.000306 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Iodomethane | U | | 0.00267 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Isopropylbenzene | U | | 0.000257 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000216 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00495 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Methylene Chloride | U | | 0.00106 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00199 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000224 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Naphthalene | U | | 0.00106 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| n-Propylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Styrene | U | | 0.000247 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000279 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000386 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000386 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Tetrachloroethene | U | | 0.000292 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Toluene | U | | 0.000459 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000323 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000410 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000302 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000293 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Trichloroethene | U | | 0.000295 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000404 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000783 | 0.00264 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000223 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.000303 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000281 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Vinyl acetate | U | | 0.00253 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Vinyl chloride | U | | 0.000308 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Xylenes, Total | U | | 0.000738 | 0.00317 | 1 | 09/17/2017 14:54 | WG1018676 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/17/2017 14:54* | WG1018676 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/17/2017 14:54* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/17/2017 14:54* | WG1018676 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.1 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0139 | J J0 | 0.0109 | 0.0543 | 1 | 09/17/2017 15:13 | WG1018676 |
| Acrylonitrile | U | | 0.00194 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Benzene | U | | 0.000293 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Bromobenzene | U | | 0.000308 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Bromochloromethane | U | | 0.000423 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| Bromoform | U | | 0.000460 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Bromomethane | U | | 0.00145 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| n-Butylbenzene | U | | 0.000280 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| sec-Butylbenzene | U | | 0.000218 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Carbon disulfide | U | | 0.000240 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Carbon tetrachloride | U | | 0.000356 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Chlorobenzene | U | | 0.000230 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Chlorodibromomethane | U | | 0.000405 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Chloroethane | U | | 0.00103 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| Chloroform | U | | 0.000249 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| Chloromethane | U | | 0.000407 | 0.00271 | 1 | 09/17/2017 15:13 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000327 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000372 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Dibromomethane | U | | 0.000415 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000245 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000774 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000329 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| cis-1,2-Dichloroethene | U | J4 | 0.000255 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000287 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000389 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000344 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000284 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000845 | 0.00271 | 1 | 09/17/2017 15:13 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Di-isopropyl ether | U | J0 | 0.000269 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Ethylbenzene | U | | 0.000322 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000371 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |
| n-Hexane | U | | 0.000315 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Isopropylbenzene | U | | 0.000264 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00508 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Methylene Chloride | U | | 0.00109 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000230 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Naphthalene | U | | 0.00109 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Styrene | U | | 0.000254 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000396 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000396 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Tetrachloroethene | U | | 0.000300 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Toluene | U | | 0.000471 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000421 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000311 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000301 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Trichloroethene | U | | 0.000303 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000415 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000805 | 0.00271 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000229 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.000312 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Vinyl chloride | U | | 0.000316 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Xylenes, Total | U | | 0.000758 | 0.00326 | 1 | 09/17/2017 15:13 | WG1018676 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/17/2017 15:13* | WG1018676 |
| *(S) Dibromofluoromethane* | *95.1* | | | *74.0-131* | | *09/17/2017 15:13* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/17/2017 15:13* | WG1018676 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.0 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0202 | J J0 | 0.0106 | 0.0532 | 1 | 09/17/2017 15:33 | WG1018676 |
| Acrylonitrile | U | | 0.00191 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Benzene | U | | 0.000287 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Bromobenzene | U | | 0.000302 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Bromodichloromethane | U | | 0.000270 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Bromochloromethane | U | | 0.000415 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| Bromoform | U | | 0.000451 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Bromomethane | U | | 0.00143 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| n-Butylbenzene | U | | 0.000275 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| sec-Butylbenzene | U | | 0.000214 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| tert-Butylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Carbon disulfide | 0.000703 | J | 0.000235 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Carbon tetrachloride | U | | 0.000349 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Chlorobenzene | U | | 0.000226 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Chlorodibromomethane | U | | 0.000397 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Chloroethane | U | | 0.00101 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| Chloroform | U | | 0.000244 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| Chloromethane | U | | 0.000399 | 0.00266 | 1 | 09/17/2017 15:33 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000320 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000365 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Dibromomethane | U | | 0.000407 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000254 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000759 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000282 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000322 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| cis-1,2-Dichloroethene | U | J4 | 0.000250 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000281 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000381 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000337 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000284 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000828 | 0.00266 | 1 | 09/17/2017 15:33 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Di-isopropyl ether | U | J0 | 0.000264 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Ethylbenzene | U | | 0.000316 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000364 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 2-Hexanone | U | | 0.00146 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |
| n-Hexane | 0.00110 | J | 0.000309 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Iodomethane | U | | 0.00269 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Isopropylbenzene | U | | 0.000259 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00498 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Methylene Chloride | U | | 0.00106 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Naphthalene | U | | 0.00106 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| n-Propylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Styrene | U | | 0.000249 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000388 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000388 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Tetrachloroethene | U | | 0.000294 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Toluene | U | | 0.000462 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000326 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000413 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000304 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Trichloroethene | U | | 0.000297 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000407 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000789 | 0.00266 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.000305 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000283 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Vinyl acetate | U | | 0.00254 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Vinyl chloride | U | | 0.000310 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Xylenes, Total | U | | 0.000743 | 0.00319 | 1 | 09/17/2017 15:33 | WG1018676 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/17/2017 15:33* | WG1018676 |
| *(S) Dibromofluoromethane* | *98.6* | | | *74.0-131* | | *09/17/2017 15:33* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/17/2017 15:33* | WG1018676 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.1 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0224 | J J0 | 0.0111 | 0.0555 | 1 | 09/17/2017 15:53 | WG1018676 |
| Acrylonitrile | U | | 0.00199 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Benzene | 0.000343 | J | 0.000300 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Bromobenzene | U | | 0.000315 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Bromodichloromethane | U | | 0.000282 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Bromochloromethane | U | | 0.000433 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 |
| Bromoform | U | | 0.000471 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Bromomethane | U | | 0.00149 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 |
| n-Butylbenzene | U | | 0.000286 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| tert-Butylbenzene | U | | 0.000229 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Carbon disulfide | 0.00159 | | 0.000245 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Carbon tetrachloride | U | | 0.000364 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Chlorobenzene | U | | 0.000235 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Chlorodibromomethane | U | | 0.000414 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Chloroethane | U | | 0.00105 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 |
| Chloroform | U | | 0.000254 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 |
| Chloromethane | U | | 0.000416 | 0.00278 | 1 | 09/17/2017 15:53 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000334 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000267 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000381 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Dibromomethane | U | | 0.000424 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000265 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000251 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000792 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000221 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000294 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000336 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| cis-1,2-Dichloroethene | U | J4 | 0.000261 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000293 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000398 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000352 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000230 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000291 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000296 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000864 | 0.00278 | 1 | 09/17/2017 15:53 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000310 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Di-isopropyl ether | U | J0 | 0.000275 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Ethylbenzene | U | | 0.000330 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000380 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 2-Hexanone | U | | 0.00152 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 |
| n-Hexane | 0.00245 | J | 0.000322 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Iodomethane | U | | 0.00281 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Isopropylbenzene | U | | 0.000270 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000227 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00520 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Methylene Chloride | U | | 0.00111 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00209 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000235 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Naphthalene | U | | 0.00111 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 |
| n-Propylbenzene | U | | 0.000229 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Styrene | U | | 0.000260 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000293 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000405 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000405 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Tetrachloroethene | U | | 0.000306 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Toluene | U | | 0.000482 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000340 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000431 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000318 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000308 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Trichloroethene | U | | 0.000310 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000424 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000823 | 0.00278 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000234 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.000319 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000295 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Vinyl acetate | U | | 0.00265 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Vinyl chloride | U | | 0.000323 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Xylenes, Total | U | | 0.000775 | 0.00333 | 1 | 09/17/2017 15:53 | WG1018676 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/17/2017 15:53* | WG1018676 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/17/2017 15:53* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/17/2017 15:53* | WG1018676 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.8 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.977 | 2.88 | 25 | 09/14/2017 01:36 | WG1018994 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.0* | | | *77.0-120* | | *09/14/2017 01:36* | WG1018994 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0129 | J J0 | 0.0115 | 0.0576 | 1 | 09/17/2017 16:12 | WG1018676 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Benzene | U | | 0.000311 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Bromobenzene | U | | 0.000327 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Bromodichloromethane | U | | 0.000293 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Bromochloromethane | U | | 0.000449 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| Bromoform | U | | 0.000488 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Bromomethane | U | | 0.00154 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| n-Butylbenzene | U | | 0.000297 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| sec-Butylbenzene | U | | 0.000232 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| tert-Butylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Carbon disulfide | U | | 0.000255 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Carbon tetrachloride | U | | 0.000378 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Chlorobenzene | U | | 0.000244 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Chlorodibromomethane | U | | 0.000430 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Chloroethane | U | | 0.00109 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| Chloroform | U | | 0.000264 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| Chloromethane | U | | 0.000432 | 0.00288 | 1 | 09/17/2017 16:12 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000347 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000276 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000395 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Dibromomethane | U | | 0.000440 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000275 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000260 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000821 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000229 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000305 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000349 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| cis-1,2-Dichloroethene | U | J4 | 0.000271 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000304 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000412 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000365 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000302 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000308 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000896 | 0.00288 | 1 | 09/17/2017 16:12 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000321 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Di-isopropyl ether | U | J0 | 0.000286 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Ethylbenzene | U | | 0.000342 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000394 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |
| n-Hexane | U | | 0.000334 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00291 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00539 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Methylene Chloride | U | | 0.00115 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00217 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Naphthalene | U | | 0.00115 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Styrene | U | | 0.000270 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000304 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000420 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000420 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Tetrachloroethene | U | | 0.000318 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Toluene | U | | 0.000500 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000447 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000329 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000319 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Trichloroethene | U | | 0.000321 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000440 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000853 | 0.00288 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000243 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.000331 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000306 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Vinyl acetate | U | | 0.00275 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Vinyl chloride | U | | 0.000335 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Xylenes, Total | U | | 0.000804 | 0.00346 | 1 | 09/17/2017 16:12 | WG1018676 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/17/2017 16:12* | WG1018676 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/17/2017 16:12* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/17/2017 16:12* | WG1018676 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 96.3 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 63.0 | | 0.881 | 2.60 | 25 | 09/14/2017 01:58 | WG1018994 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.3* | | | *77.0-120* | | *09/14/2017 01:58* | WG1018994 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0605 | J0 | 0.0104 | 0.0519 | 1 | 09/17/2017 16:32 | WG1018676 |
| Acrylonitrile | U | | 0.00186 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Benzene | 0.000346 | J | 0.000281 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Bromobenzene | U | | 0.000295 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Bromodichloromethane | U | | 0.000264 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Bromochloromethane | U | | 0.000405 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| Bromoform | U | | 0.000441 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Bromomethane | U | | 0.00139 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| n-Butylbenzene | 0.00372 | | 0.000268 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| sec-Butylbenzene | 0.00234 | | 0.000209 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| tert-Butylbenzene | U | | 0.000214 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Carbon disulfide | 0.00174 | | 0.000230 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Carbon tetrachloride | U | | 0.000341 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Chlorobenzene | U | | 0.000220 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Chlorodibromomethane | U | | 0.000388 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Chloroethane | U | | 0.000983 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| Chloroform | U | | 0.000238 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| Chloromethane | U | | 0.000390 | 0.00260 | 1 | 09/17/2017 16:32 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000313 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000249 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00109 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000356 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Dibromomethane | U | | 0.000397 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000317 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000248 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000235 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000741 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000207 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000275 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000315 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| cis-1,2-Dichloroethene | U | J4 | 0.000244 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000274 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000372 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000329 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000215 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000272 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000277 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000808 | 0.00260 | 1 | 09/17/2017 16:32 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000290 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Di-isopropyl ether | U | J0 | 0.000258 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Ethylbenzene | 0.00103 | J | 0.000309 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000355 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 2-Hexanone | U | | 0.00142 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |
| n-Hexane | U | | 0.000301 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00263 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Isopropylbenzene | 0.00134 | | 0.000252 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| p-Isopropyltoluene | 0.00256 | | 0.000212 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 2-Butanone (MEK) | 0.0148 | | 0.00486 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Methylene Chloride | U | | 0.00104 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00195 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Methyl tert-butyl ether | U | | 0.000220 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Naphthalene | 0.0257 | | 0.00104 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| n-Propylbenzene | 0.00280 | | 0.000214 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Styrene | U | | 0.000243 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000274 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000379 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000379 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Tetrachloroethene | 0.000490 | J | 0.000287 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Toluene | 0.000649 | J | 0.000451 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000318 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000403 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000297 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000288 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Trichloroethene | U | | 0.000290 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000397 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000770 | 0.00260 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2,4-Trimethylbenzene | 0.0435 | | 0.000219 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2,3-Trimethylbenzene | 0.0237 | J4 | 0.000298 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,3,5-Trimethylbenzene | 0.00931 | | 0.000276 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Vinyl acetate | U | | 0.00248 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Vinyl chloride | U | | 0.000302 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Xylenes, Total | 0.0131 | | 0.000725 | 0.00312 | 1 | 09/17/2017 16:32 | WG1018676 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/17/2017 16:32* | WG1018676 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/17/2017 16:32* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *114* | | | *64.0-132* | | *09/17/2017 16:32* | WG1018676 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.7 | | 1 | 09/14/2017 12:11 | WG1020015 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.98 | B J | 0.925 | 2.73 | 25 | 09/14/2017 02:20 | WG1018994 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.7* | | | *77.0-120* | | *09/14/2017 02:20* | WG1018994 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0109 | 0.0545 | 1 | 09/17/2017 16:51 | WG1018676 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Bromomethane | U | | 0.00146 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Carbon disulfide | 0.000626 | J | 0.000241 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| Chloroform | U | | 0.000250 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| Chloromethane | U | | 0.000409 | 0.00273 | 1 | 09/17/2017 16:51 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000778 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| cis-1,2-Dichloroethene | U | J4 | 0.000256 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000848 | 0.00273 | 1 | 09/17/2017 16:51 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Di-isopropyl ether | U | J0 | 0.000270 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |
| n-Hexane | 0.00122 | J | 0.000316 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000398 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Tetrachloroethene | 0.000955 | J | 0.000301 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Trichloroethene | U | | 0.000304 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000417 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000808 | 0.00273 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.000313 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Vinyl chloride | U | | 0.000317 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Xylenes, Total | U | | 0.000761 | 0.00327 | 1 | 09/17/2017 16:51 | WG1018676 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/17/2017 16:51* | WG1018676 |
| *(S) Dibromofluoromethane* | *99.1* | | | *74.0-131* | | *09/17/2017 16:51* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *97.9* | | | *64.0-132* | | *09/17/2017 16:51* | WG1018676 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 95.6 | | 1 | 09/14/2017 12:11 | WG1020015 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 2.81 | B | 0.887 | 2.62 | 25 | 09/14/2017 02:43 | WG1018994 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.5* | | | *77.0-120* | | *09/14/2017 02:43* | WG1018994 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0221 | J J0 | 0.0105 | 0.0523 | 1 | 09/17/2017 17:11 | WG1018676 |
| Acrylonitrile | U | | 0.00187 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Benzene | 0.000303 | J | 0.000282 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Bromobenzene | U | | 0.000297 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Bromodichloromethane | U | | 0.000266 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Bromochloromethane | U | | 0.000408 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| Bromoform | U | | 0.000444 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Bromomethane | U | | 0.00140 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| n-Butylbenzene | U | | 0.000270 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| sec-Butylbenzene | U | | 0.000210 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| tert-Butylbenzene | U | | 0.000216 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Carbon disulfide | 0.00195 | | 0.000231 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Carbon tetrachloride | U | | 0.000343 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Chlorobenzene | U | | 0.000222 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Chlorodibromomethane | U | | 0.000390 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Chloroethane | U | | 0.000990 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| Chloroform | U | | 0.000240 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| Chloromethane | U | | 0.000392 | 0.00262 | 1 | 09/17/2017 17:11 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000315 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000251 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00110 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000359 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Dibromomethane | U | | 0.000400 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000319 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000250 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000236 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000746 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000208 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000277 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000317 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| cis-1,2-Dichloroethene | U | J4 | 0.000246 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000276 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000375 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000332 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000217 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000274 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000279 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000814 | 0.00262 | 1 | 09/17/2017 17:11 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000292 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Di-isopropyl ether | U | J0 | 0.000259 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Ethylbenzene | U | | 0.000311 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000358 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 2-Hexanone | U | | 0.00143 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |
| n-Hexane | 0.0126 | | 0.000303 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00265 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Isopropylbenzene | U | | 0.000254 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000213 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 2-Butanone (MEK) | 0.00512 | J | 0.00490 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Methylene Chloride | U | | 0.00105 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00197 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Methyl tert-butyl ether | U | | 0.000222 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Naphthalene | U | | 0.00105 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| n-Propylbenzene | U | | 0.000216 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Styrene | U | | 0.000245 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000276 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000382 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000382 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Tetrachloroethene | U | | 0.000289 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Toluene | U | | 0.000454 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000320 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000406 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000299 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000290 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Trichloroethene | U | | 0.000292 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000400 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000775 | 0.00262 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000221 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.000300 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000278 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Vinyl acetate | U | | 0.00250 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Vinyl chloride | U | | 0.000304 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Xylenes, Total | U | | 0.000730 | 0.00314 | 1 | 09/17/2017 17:11 | WG1018676 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/17/2017 17:11* | WG1018676 |
| *(S) Dibromofluoromethane* | *96.2* | | | *74.0-131* | | *09/17/2017 17:11* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/17/2017 17:11* | WG1018676 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.6 | | 1 | 09/14/2017 12:11 | WG1020015 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 3.40 | B | 0.957 | 2.82 | 25 | 09/12/2017 19:46 | WG1018994 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.9* | | | *77.0-120* | | *09/12/2017 19:46* | WG1018994 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0113 | 0.0564 | 1 | 09/17/2017 17:31 | WG1018676 |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Benzene | U | | 0.000305 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Bromobenzene | U | | 0.000320 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Bromodichloromethane | U | | 0.000287 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Bromochloromethane | U | | 0.000440 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| Bromoform | U | | 0.000478 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Bromomethane | U | | 0.00151 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| n-Butylbenzene | U | | 0.000291 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| sec-Butylbenzene | U | | 0.000227 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| tert-Butylbenzene | U | | 0.000232 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Carbon disulfide | 0.000278 | J | 0.000249 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Carbon tetrachloride | U | | 0.000370 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Chlorobenzene | U | | 0.000239 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Chlorodibromomethane | U | | 0.000421 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Chloroethane | U | | 0.00107 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| Chloroform | U | | 0.000258 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| Chloromethane | U | | 0.000423 | 0.00282 | 1 | 09/17/2017 17:31 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000340 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000271 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000387 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Dibromomethane | U | | 0.000431 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000344 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000270 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000255 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000804 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000299 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000342 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| cis-1,2-Dichloroethene | U | J4 | 0.000265 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000298 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000404 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000358 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000296 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000301 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000878 | 0.00282 | 1 | 09/17/2017 17:31 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000315 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Di-isopropyl ether | U | J0 | 0.000280 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Ethylbenzene | U | | 0.000335 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000386 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |
| n-Hexane | U | | 0.000327 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00285 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Isopropylbenzene | U | | 0.000274 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000230 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00528 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Methylene Chloride | U | | 0.00113 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00212 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Methyl tert-butyl ether | U | | 0.000239 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Naphthalene | U | | 0.00113 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| n-Propylbenzene | U | | 0.000232 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Styrene | U | | 0.000264 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000298 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000412 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000412 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Tetrachloroethene | U | | 0.000311 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Toluene | U | | 0.000490 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000438 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000323 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000313 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Trichloroethene | U | | 0.000315 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000431 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000836 | 0.00282 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000238 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | J4 | 0.000324 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000300 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Vinyl acetate | U | | 0.00270 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Vinyl chloride | U | | 0.000328 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Xylenes, Total | U | | 0.000787 | 0.00338 | 1 | 09/17/2017 17:31 | WG1018676 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/17/2017 17:31* | WG1018676 |
| *(S) Dibromofluoromethane* | *99.9* | | | *74.0-131* | | *09/17/2017 17:31* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *09/17/2017 17:31* | WG1018676 |

## Method Blank (MB)

(MB) R3249487-1 09/14/17 11:54

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L935148-02 Original Sample (OS) • Duplicate (DUP)

(OS) L935148-02 09/14/17 11:54 • (DUP) R3249487-3 09/14/17 11:54

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 92.2 | 91.1 | 1 | 1.16 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3249487-2 09/14/17 11:54

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3249488-1 09/14/17 12:11

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.00120 | | | |

## L935150-08 Original Sample (OS) • Duplicate (DUP)

(OS) L935150-08 09/14/17 12:11 • (DUP) R3249488-3 09/14/17 12:11

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 91.7 | 92.4 | 1 | 0.772 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3249488-2 09/14/17 12:11

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3249104-3 09/12/17 11:16

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 0.0348 | J | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.3* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3249104-1 09/12/17 10:05 • (LCSD) R3249104-2 09/12/17 10:29

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | 6.11 | 6.48 | 111 | 118 | 70.0-133 | | | 5.78 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *112* | *113* | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3249874-3 09/09/17 20:20

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3249874-3 09/09/17 20:20

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *99.1* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *92.4* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3249874-1 09/09/17 19:19 • (LCSD) R3249874-2 09/09/17 19:40

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0776 | 0.0787 | 62.0 | 62.9 | 11.0-160 | | | 1.42 | 23 |
| Acrylonitrile | 0.125 | 0.100 | 0.0978 | 80.1 | 78.2 | 61.0-143 | | | 2.36 | 20 |
| Benzene | 0.0250 | 0.0204 | 0.0199 | 81.5 | 79.4 | 71.0-124 | | | 2.64 | 20 |
| Bromobenzene | 0.0250 | 0.0199 | 0.0195 | 79.6 | 78.1 | 78.0-120 | | | 1.82 | 20 |
| Bromodichloromethane | 0.0250 | 0.0212 | 0.0209 | 84.6 | 83.6 | 75.0-120 | | | 1.23 | 20 |
| Bromoform | 0.0250 | 0.0204 | 0.0212 | 81.5 | 85.0 | 65.0-133 | | | 4.20 | 20 |
| Bromochloromethane | 0.0250 | 0.0212 | 0.0203 | 85.0 | 81.3 | 80.0-121 | | | 4.44 | 20 |
| Bromomethane | 0.0250 | 0.0239 | 0.0234 | 95.5 | 93.4 | 26.0-160 | | | 2.14 | 20 |
| n-Butylbenzene | 0.0250 | 0.0213 | 0.0213 | 85.0 | 85.1 | 73.0-126 | | | 0.130 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0204 | 0.0200 | 81.7 | 79.8 | 75.0-121 | | | 2.33 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0201 | 0.0203 | 80.5 | 81.4 | 74.0-122 | | | 1.04 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0203 | 0.0198 | 81.1 | 79.3 | 66.0-123 | | | 2.31 | 20 |
| Carbon disulfide | 0.0250 | 0.0224 | 0.0213 | 89.6 | 85.4 | 53.0-130 | | | 4.83 | 20 |
| Chlorobenzene | 0.0250 | 0.0228 | 0.0221 | 91.3 | 88.4 | 79.0-121 | | | 3.30 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0217 | 0.0215 | 86.9 | 86.1 | 74.0-128 | | | 0.860 | 20 |
| Chloroethane | 0.0250 | 0.0232 | 0.0223 | 92.9 | 89.2 | 51.0-147 | | | 4.06 | 20 |
| Chloroform | 0.0250 | 0.0207 | 0.0203 | 83.0 | 81.0 | 73.0-123 | | | 2.40 | 20 |
| Chloromethane | 0.0250 | 0.0230 | 0.0221 | 92.1 | 88.3 | 51.0-138 | | | 4.22 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0206 | 0.0202 | 82.3 | 80.8 | 72.0-124 | | | 1.80 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0200 | 0.0200 | 80.1 | 79.9 | 78.0-120 | | | 0.220 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0196 | 0.0225 | 78.3 | 90.0 | 65.0-126 | | | 13.9 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0209 | 0.0212 | 83.7 | 84.9 | 78.0-122 | | | 1.40 | 20 |
| Dibromomethane | 0.0250 | 0.0207 | 0.0204 | 82.6 | 81.8 | 79.0-120 | | | 1.07 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0218 | 0.0217 | 87.1 | 86.9 | 80.0-120 | | | 0.270 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0220 | 0.0220 | 88.1 | 88.2 | 72.0-123 | | | 0.130 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0211 | 0.0207 | 84.2 | 82.8 | 77.0-120 | | | 1.76 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0248 | 0.0237 | 99.2 | 95.0 | 49.0-155 | | | 4.38 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0210 | 0.0228 | 83.9 | 91.1 | 68.0-126 | | | 8.27 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0215 | 0.0207 | 86.0 | 83.0 | 70.0-128 | | | 3.57 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0215 | 0.0214 | 86.2 | 85.5 | 69.0-128 | | | 0.770 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0216 | 0.0207 | 86.5 | 82.6 | 63.0-131 | | | 4.57 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0194 | 0.0181 | 77.5 | 72.3 | 74.0-123 | | J4 | 6.98 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0190 | 0.0189 | 75.9 | 75.6 | 72.0-122 | | | 0.430 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0223 | 0.0221 | 89.3 | 88.3 | 75.0-126 | | | 1.13 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0207 | 0.0198 | 82.7 | 79.4 | 72.0-130 | | | 4.12 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0223 | 0.0225 | 89.3 | 90.0 | 80.0-121 | | | 0.810 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0239 | 0.0233 | 95.4 | 93.3 | 80.0-125 | | | 2.24 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0244 | 0.0243 | 97.6 | 97.2 | 75.0-129 | | | 0.400 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0210 | 0.0208 | 84.0 | 83.3 | 60.0-129 | | | 0.810 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0202 | 0.0198 | 80.8 | 79.0 | 62.0-133 | | | 2.16 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3249874-1 09/09/17 19:19 • (LCSD) R3249874-2 09/09/17 19:40

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0211 | 0.0199 | 84.5 | 79.5 | 77.0-120 | | | 6.06 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0224 | 0.0235 | 89.6 | 93.9 | 68.0-128 | | | 4.73 | 20 |
| 2-Hexanone | 0.125 | 0.0959 | 0.102 | 76.7 | 81.4 | 61.0-143 | | | 6.00 | 20 |
| Isopropylbenzene | 0.0250 | 0.0198 | 0.0192 | 79.2 | 76.7 | 75.0-120 | | | 3.26 | 20 |
| n-Hexane | 0.0250 | 0.0188 | 0.0181 | 75.1 | 72.3 | 57.0-125 | | | 3.78 | 20 |
| Iodomethane | 0.125 | 0.128 | 0.114 | 103 | 91.2 | 67.0-132 | | | 11.7 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0214 | 0.0214 | 85.8 | 85.7 | 74.0-125 | | | 0.100 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0937 | 0.101 | 75.0 | 80.7 | 37.0-159 | | | 7.31 | 20 |
| Methylene Chloride | 0.0250 | 0.0191 | 0.0187 | 76.3 | 74.6 | 67.0-123 | | | 2.21 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.104 | 0.109 | 82.9 | 87.3 | 60.0-144 | | | 5.19 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0190 | 0.0190 | 75.9 | 75.9 | 66.0-125 | | | 0.000 | 20 |
| Naphthalene | 0.0250 | 0.0190 | 0.0205 | 76.1 | 81.9 | 64.0-125 | | | 7.39 | 20 |
| n-Propylbenzene | 0.0250 | 0.0209 | 0.0203 | 83.6 | 81.3 | 78.0-120 | | | 2.77 | 20 |
| Styrene | 0.0250 | 0.0204 | 0.0202 | 81.7 | 80.7 | 78.0-124 | | | 1.21 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0208 | 0.0210 | 83.3 | 83.8 | 74.0-124 | | | 0.610 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0193 | 0.0198 | 77.1 | 79.3 | 73.0-120 | | | 2.79 | 20 |
| Tetrachloroethene | 0.0250 | 0.0238 | 0.0229 | 95.2 | 91.6 | 70.0-127 | | | 3.79 | 20 |
| Toluene | 0.0250 | 0.0203 | 0.0197 | 81.4 | 78.9 | 77.0-120 | | | 3.06 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0226 | 0.0208 | 90.5 | 83.4 | 64.0-135 | | | 8.20 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0219 | 0.0237 | 87.6 | 94.7 | 68.0-126 | | | 7.84 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0227 | 0.0242 | 90.7 | 96.8 | 70.0-127 | | | 6.50 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0204 | 0.0197 | 81.7 | 78.8 | 69.0-125 | | | 3.61 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0199 | 0.0201 | 79.4 | 80.3 | 78.0-120 | | | 1.03 | 20 |
| Trichloroethene | 0.0250 | 0.0218 | 0.0216 | 87.3 | 86.3 | 79.0-120 | | | 1.10 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0276 | 0.0273 | 111 | 109 | 59.0-136 | | | 1.36 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0183 | 0.0192 | 73.2 | 76.8 | 73.0-124 | | | 4.79 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0191 | 0.0185 | 76.4 | 73.9 | 76.0-120 | | J4 | 3.43 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0190 | 0.0190 | 76.0 | 75.8 | 75.0-120 | | | 0.180 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0200 | 0.0198 | 79.8 | 79.1 | 75.0-120 | | | 0.900 | 20 |
| Vinyl chloride | 0.0250 | 0.0267 | 0.0264 | 107 | 106 | 63.0-134 | | | 1.22 | 20 |
| Xylenes, Total | 0.0750 | 0.0619 | 0.0600 | 82.5 | 80.0 | 77.0-120 | | | 3.12 | 20 |
| Vinyl acetate | 0.125 | 0.117 | 0.119 | 93.4 | 95.4 | 58.0-156 | | | 2.06 | 20 |
| *(S) Toluene-d8* | | | | *103* | *102* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *95.4* | *94.1* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *90.0* | *89.7* | *64.0-132* | | | | |

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

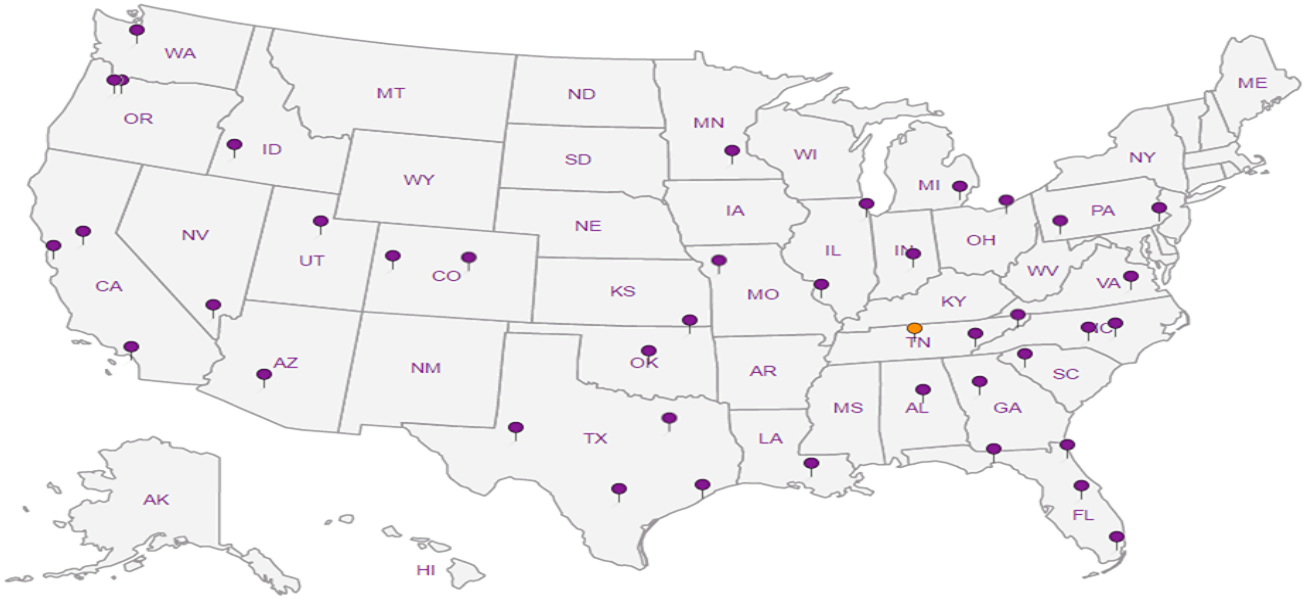
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



COOLER 1

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): HANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B-214-15 | GRAB | SS | 15 | 9/7/17 | 1030 | 4 | ~~5~~ | X | X | | -01 |
| B-214-25 | | SS | 25 | | 1055 | 4 | ~~5~~ | X | X | | -02 |
| B-214-35 | | SS | 35 | | 1120 | 4 | ~~5~~ | X | X | | -03 |
| B-214-45 | | SS | 45 | | 1150 | 4 | ~~5~~ | X | X | | -04 |
| B-214-55 | | SS | 55 | | 1400 | 4 | ~~5~~ | X | X | | -05 |
| B-212-15 | | SS | 15 | 9/8/17 | 1010 | 5 | X | X | X | | -06 |
| B-212-21 | | SS | 21 | | 1025 | 5 | X | X | X | | -07 |
| B-212-35 | | SS | 35 | | 1045 | 5 | X | X | X | | -08 |
| B-212-45 | | SS | 45 | | 1115 | 5 | X | X | X | | -09 |
| B-212-55 | | SS | 55 | | 1145 | 5 | X | X | X | | -10 |

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LABORATORIES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L935150

Table # B170

Acctnum: PESENVSWA

Template: T126584

Prelogin: P615998

TSR: 110 - Brian Ford

PB CM 8.31.17

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7474 0927 0957

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: X __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 2-1 °C Bottles Received: 45 — If preservation required by Login: Date/Time |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 9/9/17 Time: 0845 — Hold: — Condition: NCF / OK |

# MEMORANDUM

**TO:** Project File **DATE:** October 13, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** September 7 and 8, 2017 – Soil Samples

**LAB:** ESC Lab ID L935150

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Ten (10) soil samples were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 7 and 8, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology;
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L935150. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L935150 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on September 7 and 8, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 2.1 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. Holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for trans-1,4-dichloro-2-butene and di-isopropyl ether associated with analytical batch WG1018676 (analyzed on September 9, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs).

*NWTPH-Gx Method:*

Laboratory method blanks were included with the analytical batch per method requirement. The target analyte (gasoline) was detected below the RDL of 0.100 mg/kg at a low level of 0.0348 mg/kg in the associated method blank and detections in associated samples are qualified as follows:

- **Gasoline result for sample B-212-35 was detected below the RDL and due to associated blank contamination is qualified as not detected (U).**

- **Gasoline results for samples B-212-45 and B-212-55 are qualified as estimated (J) due to blank contamination.**

*Total Solids by SM 2540 G 2011:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was not collected.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate (sample B-212-45 from SDG L935150; and sample B-907-25 from SDG L935266) results are comparable and less than 30% RPD. Refer to SDG L935266 for additional discussion on analysis issues associated with sample B-907-25.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to LCS/LCSDs or MS/MSDs results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on client samples B-214-25 and B-212-35. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSDs were analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils with the following exception:

- LCSD (Batch WG1018676) percent recovery for compounds cis-1,2-dichloroethene and 1,2,3-trimethylbenzene are slightly below laboratory criteria and qualified by the laboratory (J4). **All associated cis-1,2-dichloroethene and 1,2,3-trimethylbenzene results are estimated and qualified (UJ/J).**

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPDs for the control analyte (gasoline) are within the laboratory control criteria for soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD results for precision and accuracy results.

*NWTPH-Gx Method:*
MS/MSD analyses were not performed. Refer to LCS/LCSD results for precision and accuracy results.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- *USEPA Method 8260C:* The method blank and LCS/LCSD for Batch WG1018676 were analyzed on September 9, 2017 and samples were analyzed September 17, 2017. ESC confirmed that the samples were analyzed on a different date than the method QC. ESC

indicated that the instrument was verified to be within calibration using the CCV and following standard operating procedures prior to analysis of the samples.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.3 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U | | 0.0107 | 0.0536 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Benzene | U | | 0.000290 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Bromobenzene | U | | 0.000305 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Bromochloromethane | U | | 0.000418 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Bromoform | U | | 0.000455 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Bromomethane | U | | 0.00144 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 | |
| n-Butylbenzene | U | | 0.000277 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| sec-Butylbenzene | U | | 0.000216 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Carbon disulfide | 0.000244 J | J | 0.000237 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Carbon tetrachloride | U | | 0.000352 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Chlorodibromomethane | U | | 0.000400 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Chloroethane | U | | 0.00101 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Chloroform | U | | 0.000246 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Chloromethane | U | | 0.000402 | 0.00268 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 2-Chlorotoluene | U | | 0.000323 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 1,2-Dibromoethane | U | | 0.000368 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Dibromomethane | U | | 0.000410 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 1,2-Dichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Dichlorodifluoromethane | U | | 0.000765 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 1,1-Dichloroethene | U | | 0.000325 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| cis-1,2-Dichloroethene | U UJ | J4 | 0.000252 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| trans-1,2-Dichloroethene | U | | 0.000283 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 1,2-Dichloropropane | U | | 0.000384 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 1,1-Dichloropropene | U | | 0.000340 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000834 | 0.00268 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 2,2-Dichloropropane | U | | 0.000299 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Di-isopropyl ether | U UJ | J0 | 0.000266 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Hexachloro-1,3-butadiene | U | | 0.000367 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| n-Hexane | U | | 0.000311 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Isopropylbenzene | U | | 0.000261 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| p-Isopropyltoluene | U | | 0.000219 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 2-Butanone (MEK) | U | | 0.00502 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 | |
| Methylene Chloride | U | | 0.00107 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 | |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 | JC 10/13/17 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Naphthalene | U | | 0.00107 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000283 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000391 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000391 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Tetrachloroethene | U | | 0.000296 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Toluene | U | | 0.000465 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000416 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000307 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000297 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Trichloroethene | U | | 0.000299 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000410 | 0.00536 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000795 | 0.00268 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | UJ J4 | 0.000308 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Vinyl chloride | U | | 0.000312 | 0.00107 | 1 | 09/17/2017 14:13 | WG1018676 |
| Xylenes, Total | U | | 0.000748 | 0.00322 | 1 | 09/17/2017 14:13 | WG1018676 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/17/2017 14:13* | WG1018676 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/17/2017 14:13* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *09/17/2017 14:13* | WG1018676 |

JC 10/13/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.6 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0106 | 0.0528 | 1 | 09/17/2017 14:54 | WG1018676 |
| Acrylonitrile | U | | 0.00189 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Benzene | U | | 0.000285 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Bromobenzene | U | | 0.000300 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Bromodichloromethane | U | | 0.000268 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Bromochloromethane | U | | 0.000412 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| Bromoform | U | | 0.000448 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Bromomethane | U | | 0.00142 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| n-Butylbenzene | U | | 0.000273 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| sec-Butylbenzene | U | | 0.000212 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| tert-Butylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Carbon disulfide | U | | 0.000234 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Carbon tetrachloride | U | | 0.000347 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Chlorobenzene | U | | 0.000224 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Chlorodibromomethane | U | | 0.000394 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Chloroethane | U | | 0.00100 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| Chloroform | U | | 0.000242 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| Chloromethane | U | | 0.000396 | 0.00264 | 1 | 09/17/2017 14:54 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000318 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000254 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000363 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Dibromomethane | U | | 0.000404 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000322 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000253 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000239 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000754 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000210 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000280 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000320 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| cis-1,2-Dichloroethene | U | UJ J4 | 0.000248 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000279 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000378 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000335 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000219 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000277 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000282 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U | UJ J0 | 0.000822 | 0.00264 | 1 | 09/17/2017 14:54 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000295 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Di-isopropyl ether | U | UJ J0 | 0.000262 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Ethylbenzene | U | | 0.000314 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000361 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 2-Hexanone | U | | 0.00145 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |
| n-Hexane | 0.000623 | J J | 0.000306 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Iodomethane | U | | 0.00267 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Isopropylbenzene | U | | 0.000257 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000216 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00495 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Methylene Chloride | U | | 0.00106 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00199 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000224 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Naphthalene | U | | 0.00106 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| n-Propylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Styrene | U | | 0.000247 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000279 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000386 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000386 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Tetrachloroethene | U | | 0.000292 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Toluene | U | | 0.000459 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000323 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000410 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000302 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000293 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Trichloroethene | U | | 0.000295 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000404 | 0.00528 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000783 | 0.00264 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000223 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | UJ J4 | 0.000303 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000281 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Vinyl acetate | U | | 0.00253 | 0.0106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Vinyl chloride | U | | 0.000308 | 0.00106 | 1 | 09/17/2017 14:54 | WG1018676 |
| Xylenes, Total | U | | 0.000738 | 0.00317 | 1 | 09/17/2017 14:54 | WG1018676 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/17/2017 14:54* | WG1018676 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/17/2017 14:54* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/17/2017 14:54* | WG1018676 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.1 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0139 J | J J0 | 0.0109 | 0.0543 | 1 | 09/17/2017 15:13 | WG1018676 |
| Acrylonitrile | U | | 0.00194 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Benzene | U | | 0.000293 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Bromobenzene | U | | 0.000308 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Bromodichloromethane | U | | 0.000276 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Bromochloromethane | U | | 0.000423 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| Bromoform | U | | 0.000460 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Bromomethane | U | | 0.00145 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| n-Butylbenzene | U | | 0.000280 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| sec-Butylbenzene | U | | 0.000218 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| tert-Butylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Carbon disulfide | U | | 0.000240 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Carbon tetrachloride | U | | 0.000356 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Chlorobenzene | U | | 0.000230 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Chlorodibromomethane | U | | 0.000405 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Chloroethane | U | | 0.00103 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| Chloroform | U | | 0.000249 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| Chloromethane | U | | 0.000407 | 0.00271 | 1 | 09/17/2017 15:13 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000327 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000261 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000372 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Dibromomethane | U | | 0.000415 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000260 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000245 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000774 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000288 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000329 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| cis-1,2-Dichloroethene | U | UJ J4 | 0.000255 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000287 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000389 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000344 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000225 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000284 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U | UJ J0 | 0.000845 | 0.00271 | 1 | 09/17/2017 15:13 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Di-isopropyl ether | U | UJ J0 | 0.000269 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Ethylbenzene | U | | 0.000322 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000371 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |
| n-Hexane | U | | 0.000315 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Iodomethane | U | | 0.00275 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Isopropylbenzene | U | | 0.000264 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00508 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Methylene Chloride | U | | 0.00109 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000230 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Naphthalene | U | | 0.00109 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| n-Propylbenzene | U | | 0.000224 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Styrene | U | | 0.000254 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000287 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000396 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000396 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Tetrachloroethene | U | | 0.000300 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Toluene | U | | 0.000471 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000332 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000421 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000311 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000301 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Trichloroethene | U | | 0.000303 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000415 | 0.00543 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000805 | 0.00271 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000229 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | UJ J4 | 0.000312 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000289 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Vinyl acetate | U | | 0.00260 | 0.0109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Vinyl chloride | U | | 0.000316 | 0.00109 | 1 | 09/17/2017 15:13 | WG1018676 |
| Xylenes, Total | U | | 0.000758 | 0.00326 | 1 | 09/17/2017 15:13 | WG1018676 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/17/2017 15:13* | WG1018676 |
| *(S) Dibromofluoromethane* | *95.1* | | | *74.0-131* | | *09/17/2017 15:13* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/17/2017 15:13* | WG1018676 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.0 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0202 J | J J0 | 0.0106 | 0.0532 | 1 | 09/17/2017 15:33 | WG1018676 |
| Acrylonitrile | U | | 0.00191 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Benzene | U | | 0.000287 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Bromobenzene | U | | 0.000302 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Bromodichloromethane | U | | 0.000270 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Bromochloromethane | U | | 0.000415 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| Bromoform | U | | 0.000451 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Bromomethane | U | | 0.00143 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| n-Butylbenzene | U | | 0.000275 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| sec-Butylbenzene | U | | 0.000214 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| tert-Butylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Carbon disulfide | 0.000703 J | J | 0.000235 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Carbon tetrachloride | U | | 0.000349 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Chlorobenzene | U | | 0.000226 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Chlorodibromomethane | U | | 0.000397 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Chloroethane | U | | 0.00101 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| Chloroform | U | | 0.000244 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| Chloromethane | U | | 0.000399 | 0.00266 | 1 | 09/17/2017 15:33 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000320 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000365 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Dibromomethane | U | | 0.000407 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000254 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000759 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000282 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000322 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| cis-1,2-Dichloroethene | U UJ | J4 | 0.000250 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000281 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000381 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000337 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000284 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000828 | 0.00266 | 1 | 09/17/2017 15:33 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Di-isopropyl ether | U UJ | J0 | 0.000264 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Ethylbenzene | U | | 0.000316 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000364 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 2-Hexanone | U | | 0.00146 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |
| n-Hexane | 0.00110 J | J | 0.000309 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Iodomethane | U | | 0.00269 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Isopropylbenzene | U | | 0.000259 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00498 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Methylene Chloride | U | | 0.00106 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Naphthalene | U | | 0.00106 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| n-Propylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Styrene | U | | 0.000249 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000388 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000388 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Tetrachloroethene | U | | 0.000294 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Toluene | U | | 0.000462 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000326 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000413 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000304 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Trichloroethene | U | | 0.000297 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000407 | 0.00532 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000789 | 0.00266 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | UJ | J4 0.000305 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000283 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Vinyl acetate | U | | 0.00254 | 0.0106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Vinyl chloride | U | | 0.000310 | 0.00106 | 1 | 09/17/2017 15:33 | WG1018676 |
| Xylenes, Total | U | | 0.000743 | 0.00319 | 1 | 09/17/2017 15:33 | WG1018676 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/17/2017 15:33* | WG1018676 |
| *(S) Dibromofluoromethane* | *98.6* | | | *74.0-131* | | *09/17/2017 15:33* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/17/2017 15:33* | WG1018676 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.1 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | 0.0224 J | J J0 | 0.0111 | 0.0555 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Acrylonitrile | U | | 0.00199 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Benzene | 0.000343 J | J | 0.000300 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Bromobenzene | U | | 0.000315 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Bromodichloromethane | U | | 0.000282 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Bromochloromethane | U | | 0.000433 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Bromoform | U | | 0.000471 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Bromomethane | U | | 0.00149 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 | |
| n-Butylbenzene | U | | 0.000286 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| tert-Butylbenzene | U | | 0.000229 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Carbon disulfide | 0.00159 | | 0.000245 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Carbon tetrachloride | U | | 0.000364 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Chlorobenzene | U | | 0.000235 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Chlorodibromomethane | U | | 0.000414 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Chloroethane | U | | 0.00105 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Chloroform | U | | 0.000254 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Chloromethane | U | | 0.000416 | 0.00278 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 2-Chlorotoluene | U | | 0.000334 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 4-Chlorotoluene | U | | 0.000267 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 1,2-Dibromoethane | U | | 0.000381 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Dibromomethane | U | | 0.000424 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 1,2-Dichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 1,3-Dichlorobenzene | U | | 0.000265 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 1,4-Dichlorobenzene | U | | 0.000251 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Dichlorodifluoromethane | U | | 0.000792 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 1,1-Dichloroethane | U | | 0.000221 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 1,2-Dichloroethane | U | | 0.000294 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 1,1-Dichloroethene | U | | 0.000336 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| cis-1,2-Dichloroethene | U | UJ J4 | 0.000261 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| trans-1,2-Dichloroethene | U | | 0.000293 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 1,2-Dichloropropane | U | | 0.000398 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 1,1-Dichloropropene | U | | 0.000352 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 1,3-Dichloropropane | U | | 0.000230 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| cis-1,3-Dichloropropene | U | | 0.000291 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| trans-1,3-Dichloropropene | U | | 0.000296 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| trans-1,4-Dichloro-2-butene | U | UJ J0 | 0.000864 | 0.00278 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 2,2-Dichloropropane | U | | 0.000310 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Di-isopropyl ether | U | UJ J0 | 0.000275 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Ethylbenzene | U | | 0.000330 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Hexachloro-1,3-butadiene | U | | 0.000380 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 2-Hexanone | U | | 0.00152 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| n-Hexane | 0.00245 J | J | 0.000322 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Iodomethane | U | | 0.00281 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Isopropylbenzene | U | | 0.000270 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| p-Isopropyltoluene | U | | 0.000227 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 2-Butanone (MEK) | U | | 0.00520 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 | |
| Methylene Chloride | U | | 0.00111 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 | |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00209 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 | JC 10/13/17 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000235 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Naphthalene | U | | 0.00111 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 |
| n-Propylbenzene | U | | 0.000229 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Styrene | U | | 0.000260 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000293 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000405 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000405 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Tetrachloroethene | U | | 0.000306 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Toluene | U | | 0.000482 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000340 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000431 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000318 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000308 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Trichloroethene | U | | 0.000310 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000424 | 0.00555 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000823 | 0.00278 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000234 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | UJ J4 | 0.000319 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000295 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Vinyl acetate | U | | 0.00265 | 0.0111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Vinyl chloride | U | | 0.000323 | 0.00111 | 1 | 09/17/2017 15:53 | WG1018676 |
| Xylenes, Total | U | | 0.000775 | 0.00333 | 1 | 09/17/2017 15:53 | WG1018676 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/17/2017 15:53* | WG1018676 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/17/2017 15:53* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/17/2017 15:53* | WG1018676 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.8 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.977 | 2.88 | 25 | 09/14/2017 01:36 | WG1018994 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.0* | | | *77.0-120* | | *09/14/2017 01:36* | WG1018994 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0129 | J | J J0 | 0.0115 | 0.0576 | 1 | 09/17/2017 16:12 | WG1018676 |
| Acrylonitrile | U | | | 0.00206 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Benzene | U | | | 0.000311 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Bromobenzene | U | | | 0.000327 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Bromodichloromethane | U | | | 0.000293 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Bromochloromethane | U | | | 0.000449 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| Bromoform | U | | | 0.000488 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Bromomethane | U | | | 0.00154 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| n-Butylbenzene | U | | | 0.000297 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| sec-Butylbenzene | U | | | 0.000232 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| tert-Butylbenzene | U | | | 0.000237 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Carbon disulfide | U | | | 0.000255 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Carbon tetrachloride | U | | | 0.000378 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Chlorobenzene | U | | | 0.000244 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Chlorodibromomethane | U | | | 0.000430 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Chloroethane | U | | | 0.00109 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| Chloroform | U | | | 0.000264 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| Chloromethane | U | | | 0.000432 | 0.00288 | 1 | 09/17/2017 16:12 | WG1018676 |
| 2-Chlorotoluene | U | | | 0.000347 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 4-Chlorotoluene | U | | | 0.000276 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | | 0.00121 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2-Dibromoethane | U | | | 0.000395 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Dibromomethane | U | | | 0.000440 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2-Dichlorobenzene | U | | | 0.000351 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,3-Dichlorobenzene | U | | | 0.000275 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,4-Dichlorobenzene | U | | | 0.000260 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Dichlorodifluoromethane | U | | | 0.000821 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1-Dichloroethane | U | | | 0.000229 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2-Dichloroethane | U | | | 0.000305 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1-Dichloroethene | U | | | 0.000349 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| cis-1,2-Dichloroethene | U | UJ | J4 | 0.000271 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| trans-1,2-Dichloroethene | U | | | 0.000304 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2-Dichloropropane | U | | | 0.000412 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1-Dichloropropene | U | | | 0.000365 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,3-Dichloropropane | U | | | 0.000238 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| cis-1,3-Dichloropropene | U | | | 0.000302 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| trans-1,3-Dichloropropene | U | | | 0.000308 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U | UJ | J0 | 0.000896 | 0.00288 | 1 | 09/17/2017 16:12 | WG1018676 |
| 2,2-Dichloropropane | U | | | 0.000321 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Di-isopropyl ether | U | UJ | J0 | 0.000286 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Ethylbenzene | U | | | 0.000342 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | | 0.000394 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 2-Hexanone | U | | | 0.00158 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |
| n-Hexane | U | | | 0.000334 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00291 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00539 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Methylene Chloride | U | | 0.00115 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00217 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Naphthalene | U | | 0.00115 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Styrene | U | | 0.000270 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000304 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000420 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000420 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Tetrachloroethene | U | | 0.000318 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Toluene | U | | 0.000500 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000447 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000329 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000319 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Trichloroethene | U | | 0.000321 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000440 | 0.00576 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000853 | 0.00288 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000243 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | UJ | 0.000331 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000306 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Vinyl acetate | U | | 0.00275 | 0.0115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Vinyl chloride | U | | 0.000335 | 0.00115 | 1 | 09/17/2017 16:12 | WG1018676 |
| Xylenes, Total | U | | 0.000804 | 0.00346 | 1 | 09/17/2017 16:12 | WG1018676 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/17/2017 16:12* | WG1018676 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/17/2017 16:12* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/17/2017 16:12* | WG1018676 |

J4

JC 10/13/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 96.3 | | 1 | 09/14/2017 11:54 | WG1020007 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 63.0 | | 0.881 | 2.60 | 25 | 09/14/2017 01:58 | WG1018994 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.3* | | | *77.0-120* | | *09/14/2017 01:58* | WG1018994 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0605 J | J0 | 0.0104 | 0.0519 | 1 | 09/17/2017 16:32 | WG1018676 |
| Acrylonitrile | U | | 0.00186 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Benzene | 0.000346 J | J | 0.000281 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Bromobenzene | U | | 0.000295 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Bromodichloromethane | U | | 0.000264 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Bromochloromethane | U | | 0.000405 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| Bromoform | U | | 0.000441 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Bromomethane | U | | 0.00139 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| n-Butylbenzene | 0.00372 | | 0.000268 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| sec-Butylbenzene | 0.00234 | | 0.000209 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| tert-Butylbenzene | U | | 0.000214 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Carbon disulfide | 0.00174 | | 0.000230 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Carbon tetrachloride | U | | 0.000341 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Chlorobenzene | U | | 0.000220 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Chlorodibromomethane | U | | 0.000388 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Chloroethane | U | | 0.000983 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| Chloroform | U | | 0.000238 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| Chloromethane | U | | 0.000390 | 0.00260 | 1 | 09/17/2017 16:32 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000313 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000249 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00109 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000356 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Dibromomethane | U | | 0.000397 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000317 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000248 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000235 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000741 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000207 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000275 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000315 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| cis-1,2-Dichloroethene | U UJ | J4 | 0.000244 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000274 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000372 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000329 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000215 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000272 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000277 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000808 | 0.00260 | 1 | 09/17/2017 16:32 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000290 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Di-isopropyl ether | U UJ | J0 | 0.000258 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Ethylbenzene | 0.00103 J | J | 0.000309 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000355 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 2-Hexanone | U | | 0.00142 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |
| n-Hexane | U | | 0.000301 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00263 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Isopropylbenzene | 0.00134 | | 0.000252 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| p-Isopropyltoluene | 0.00256 | | 0.000212 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 2-Butanone (MEK) | 0.0148 | | 0.00486 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Methylene Chloride | U | | 0.00104 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00195 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Methyl tert-butyl ether | U | | 0.000220 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Naphthalene | 0.0257 | | 0.00104 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| n-Propylbenzene | 0.00280 | | 0.000214 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Styrene | U | | 0.000243 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000274 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000379 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000379 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Tetrachloroethene | 0.000490 J | J | 0.000287 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Toluene | 0.000649 J | J | 0.000451 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000318 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000403 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000297 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000288 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Trichloroethene | U | | 0.000290 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000397 | 0.00519 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000770 | 0.00260 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2,4-Trimethylbenzene | 0.0435 | | 0.000219 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,2,3-Trimethylbenzene | 0.0237 J | J4 | 0.000298 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| 1,3,5-Trimethylbenzene | 0.00931 | | 0.000276 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Vinyl acetate | U | | 0.00248 | 0.0104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Vinyl chloride | U | | 0.000302 | 0.00104 | 1 | 09/17/2017 16:32 | WG1018676 |
| Xylenes, Total | 0.0131 | | 0.000725 | 0.00312 | 1 | 09/17/2017 16:32 | WG1018676 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/17/2017 16:32* | WG1018676 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/17/2017 16:32* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *114* | | | *64.0-132* | | *09/17/2017 16:32* | WG1018676 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 91.7 | | 1 | 09/14/2017 12:11 | WG1020015 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Gasoline Range Organics-NWTPH | 1.98 U | B J | 0.925 | 2.73 | 25 | 09/14/2017 02:20 | WG1018994 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.7* | | | *77.0-120* | | *09/14/2017 02:20* | WG1018994 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.0109 | 0.0545 | 1 | 09/17/2017 16:51 | WG1018676 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Benzene | U | | 0.000294 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Bromomethane | U | | 0.00146 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Carbon disulfide | 0.000626 J | J | 0.000241 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| Chloroform | U | | 0.000250 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| Chloromethane | U | | 0.000409 | 0.00273 | 1 | 09/17/2017 16:51 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000374 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000246 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000778 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000330 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| cis-1,2-Dichloroethene | U UJ | J4 | 0.000256 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000848 | 0.00273 | 1 | 09/17/2017 16:51 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Di-isopropyl ether | U UJ | J0 | 0.000270 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |
| n-Hexane | 0.00122 J | J | 0.000316 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000222 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000398 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Tetrachloroethene | 0.000955 | J J | 0.000301 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000302 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Trichloroethene | U | | 0.000304 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000417 | 0.00545 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000808 | 0.00273 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | UJ J4 | 0.000313 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Vinyl chloride | U | | 0.000317 | 0.00109 | 1 | 09/17/2017 16:51 | WG1018676 |
| Xylenes, Total | U | | 0.000761 | 0.00327 | 1 | 09/17/2017 16:51 | WG1018676 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/17/2017 16:51* | WG1018676 |
| *(S) Dibromofluoromethane* | *99.1* | | | *74.0-131* | | *09/17/2017 16:51* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *97.9* | | | *64.0-132* | | *09/17/2017 16:51* | WG1018676 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 95.6 | | 1 | 09/14/2017 12:11 | WG1020015 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 2.81 J | B | 0.887 | 2.62 | 25 | 09/14/2017 02:43 | WG1018994 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.5* | | | *77.0-120* | | *09/14/2017 02:43* | WG1018994 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0221 J | J J0 | 0.0105 | 0.0523 | 1 | 09/17/2017 17:11 | WG1018676 |
| Acrylonitrile | U | | 0.00187 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Benzene | 0.000303 J | J | 0.000282 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Bromobenzene | U | | 0.000297 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Bromodichloromethane | U | | 0.000266 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Bromochloromethane | U | | 0.000408 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| Bromoform | U | | 0.000444 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Bromomethane | U | | 0.00140 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| n-Butylbenzene | U | | 0.000270 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| sec-Butylbenzene | U | | 0.000210 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| tert-Butylbenzene | U | | 0.000216 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Carbon disulfide | 0.00195 | | 0.000231 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Carbon tetrachloride | U | | 0.000343 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Chlorobenzene | U | | 0.000222 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Chlorodibromomethane | U | | 0.000390 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Chloroethane | U | | 0.000990 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| Chloroform | U | | 0.000240 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| Chloromethane | U | | 0.000392 | 0.00262 | 1 | 09/17/2017 17:11 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000315 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000251 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00110 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000359 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Dibromomethane | U | | 0.000400 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000319 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000250 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000236 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000746 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000208 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000277 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000317 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| cis-1,2-Dichloroethene | U UJ | J4 | 0.000246 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000276 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000375 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000332 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000217 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000274 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000279 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000814 | 0.00262 | 1 | 09/17/2017 17:11 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000292 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Di-isopropyl ether | U UJ | J0 | 0.000259 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Ethylbenzene | U | | 0.000311 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000358 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 2-Hexanone | U | | 0.00143 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |
| n-Hexane | 0.0126 | | 0.000303 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |

JC 10/13/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00265 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Isopropylbenzene | U | | 0.000254 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000213 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 2-Butanone (MEK) | 0.00512 | J J | 0.00490 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Methylene Chloride | U | | 0.00105 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00197 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Methyl tert-butyl ether | U | | 0.000222 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Naphthalene | U | | 0.00105 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| n-Propylbenzene | U | | 0.000216 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Styrene | U | | 0.000245 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000276 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000382 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000382 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Tetrachloroethene | U | | 0.000289 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Toluene | U | | 0.000454 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000320 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000406 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000299 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000290 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Trichloroethene | U | | 0.000292 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000400 | 0.00523 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000775 | 0.00262 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000221 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | UJ J4 | 0.000300 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000278 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Vinyl acetate | U | | 0.00250 | 0.0105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Vinyl chloride | U | | 0.000304 | 0.00105 | 1 | 09/17/2017 17:11 | WG1018676 |
| Xylenes, Total | U | | 0.000730 | 0.00314 | 1 | 09/17/2017 17:11 | WG1018676 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/17/2017 17:11* | WG1018676 |
| *(S) Dibromofluoromethane* | *96.2* | | | *74.0-131* | | *09/17/2017 17:11* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/17/2017 17:11* | WG1018676 |

JC 10/13/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.6 | | 1 | 09/14/2017 12:11 | WG1020015 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 3.40 J | B | 0.957 | 2.82 | 25 | 09/12/2017 19:46 | WG1018994 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.9* | | | *77.0-120* | | *09/12/2017 19:46* | WG1018994 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0113 | 0.0564 | 1 | 09/17/2017 17:31 | WG1018676 |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Benzene | U | | 0.000305 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Bromobenzene | U | | 0.000320 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Bromodichloromethane | U | | 0.000287 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Bromochloromethane | U | | 0.000440 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| Bromoform | U | | 0.000478 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Bromomethane | U | | 0.00151 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| n-Butylbenzene | U | | 0.000291 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| sec-Butylbenzene | U | | 0.000227 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| tert-Butylbenzene | U | | 0.000232 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Carbon disulfide | 0.000278 J | J | 0.000249 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Carbon tetrachloride | U | | 0.000370 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Chlorobenzene | U | | 0.000239 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Chlorodibromomethane | U | | 0.000421 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Chloroethane | U | | 0.00107 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| Chloroform | U | | 0.000258 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| Chloromethane | U | | 0.000423 | 0.00282 | 1 | 09/17/2017 17:31 | WG1018676 |
| 2-Chlorotoluene | U | | 0.000340 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 4-Chlorotoluene | U | | 0.000271 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2-Dibromoethane | U | | 0.000387 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Dibromomethane | U | | 0.000431 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2-Dichlorobenzene | U | | 0.000344 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,3-Dichlorobenzene | U | | 0.000270 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,4-Dichlorobenzene | U | | 0.000255 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Dichlorodifluoromethane | U | | 0.000804 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2-Dichloroethane | U | | 0.000299 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1-Dichloroethene | U | | 0.000342 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| cis-1,2-Dichloroethene | U UJ | J4 | 0.000265 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| trans-1,2-Dichloroethene | U | | 0.000298 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2-Dichloropropane | U | | 0.000404 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1-Dichloropropene | U | | 0.000358 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| cis-1,3-Dichloropropene | U | | 0.000296 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| trans-1,3-Dichloropropene | U | | 0.000301 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000878 | 0.00282 | 1 | 09/17/2017 17:31 | WG1018676 |
| 2,2-Dichloropropane | U | | 0.000315 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Di-isopropyl ether | U UJ | J0 | 0.000280 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Ethylbenzene | U | | 0.000335 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Hexachloro-1,3-butadiene | U | | 0.000386 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |
| n-Hexane | U | | 0.000327 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |

JC 10/13/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00285 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Isopropylbenzene | U | | 0.000274 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| p-Isopropyltoluene | U | | 0.000230 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 2-Butanone (MEK) | U | | 0.00528 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Methylene Chloride | U | | 0.00113 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00212 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Methyl tert-butyl ether | U | | 0.000239 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Naphthalene | U | | 0.00113 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| n-Propylbenzene | U | | 0.000232 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Styrene | U | | 0.000264 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000298 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000412 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000412 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Tetrachloroethene | U | | 0.000311 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Toluene | U | | 0.000490 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2,3-Trichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2,4-Trichlorobenzene | U | | 0.000438 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1,1-Trichloroethane | U | | 0.000323 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,1,2-Trichloroethane | U | | 0.000313 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Trichloroethene | U | | 0.000315 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Trichlorofluoromethane | U | | 0.000431 | 0.00564 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2,3-Trichloropropane | U | | 0.000836 | 0.00282 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2,4-Trimethylbenzene | U | | 0.000238 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,2,3-Trimethylbenzene | U | UJ J4 | 0.000324 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| 1,3,5-Trimethylbenzene | U | | 0.000300 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Vinyl acetate | U | | 0.00270 | 0.0113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Vinyl chloride | U | | 0.000328 | 0.00113 | 1 | 09/17/2017 17:31 | WG1018676 |
| Xylenes, Total | U | | 0.000787 | 0.00338 | 1 | 09/17/2017 17:31 | WG1018676 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/17/2017 17:31* | WG1018676 |
| *(S) Dibromofluoromethane* | *99.9* | | | *74.0-131* | | *09/17/2017 17:31* | WG1018676 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *09/17/2017 17:31* | WG1018676 |

JC 10/13/17

## Bill Haldeman

**From:** J Compeau <Informa_LLC@comcast.net>
**Sent:** Monday, October 16, 2017 9:22 AM
**To:** Bill Haldeman
**Subject:** FW: American Linen Project SDG L935150

Communication regarding L935150.

---

**From:** Brian Ford [mailto:BFord@esclabsciences.com]
**Sent:** Friday, October 13, 2017 3:30 PM
**To:** 'J Compeau'
**Subject:** RE: American Linen Project SDG L935150

Jessie,

The samples ran on a different day than the method QC. The instrument was verified to be within calibration using the CCV prior to analysis of the samples. Let me know if you need any further information.

Thanks,

Brian Ford
*Technical Service Representative*

**ESC Lab Sciences**-a subsidiary of Pace Analytical
12065 Lebanon Road | Mt. Juliet, TN 37122
615.773.9772 | Cell 931.510.2229
bford@esclabsciences.com | www.esclabsciences.com

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**From:** J Compeau [mailto:Informa_LLC@comcast.net]
**Sent:** Friday, October 13, 2017 1:45 PM
**To:** Brian Ford
**Subject:** American Linen Project SDG L935150

Hello Brian,
Reports look good so far. I have about 9 left to review. Am looking over the SDG L935150 results and have the following question:

*USEPA Method 8260C:* The method blank/LCS/LCSD for WG1018676 was analyzed on September 9, 2017 but samples were analyzed September 17, 2017. Can ESC please confirm the date of analysis on the MB/LCS/LCSD?

Thanks

Jessie Compeau
PES Environmental
(206) 849-8494

Notice: This communication and any attached files may contain privileged or other confidential information. If

you have received this in error, please contact the sender immediately via reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.

# ANALYTICAL REPORT

September 20, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L935266 |
| Samples Received: | 09/09/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-212-65 L935266-01 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 12:30 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020726 | 1 | 09/15/17 09:38 | 09/15/17 09:48 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1020338 | 25 | 09/08/17 12:30 | 09/14/17 16:13 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1019379 | 1 | 09/08/17 12:30 | 09/12/17 21:19 | ACG |

## B-212-75 L935266-02 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 13:50 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020726 | 1 | 09/15/17 09:38 | 09/15/17 09:48 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1020338 | 26.75 | 09/08/17 13:50 | 09/14/17 16:35 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1019379 | 1 | 09/08/17 13:50 | 09/12/17 21:41 | ACG |

## B-214-65 L935266-03 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 10:30 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020385 | 1 | 09/14/17 13:15 | 09/14/17 13:28 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1019379 | 1 | 09/08/17 10:30 | 09/12/17 22:03 | ACG |

## B-214-75 L935266-04 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 11:10 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020385 | 1 | 09/14/17 13:15 | 09/14/17 13:28 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1019379 | 1 | 09/08/17 11:10 | 09/18/17 13:29 | JHH |

## B-214-85 L935266-05 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 11:55 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020385 | 1 | 09/14/17 13:15 | 09/14/17 13:28 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1019379 | 1 | 09/08/17 11:55 | 09/18/17 13:49 | JHH |

## B-908-100 L935266-06 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 12:30 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020385 | 1 | 09/14/17 13:15 | 09/14/17 13:28 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1019379 | 1 | 09/08/17 12:30 | 09/18/17 14:08 | JHH |

## B-214-95 L935266-07 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 13:10 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020385 | 1 | 09/14/17 13:15 | 09/14/17 13:28 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1019379 | 1 | 09/08/17 13:10 | 09/18/17 14:28 | JHH |

## B-214-105 L935266-08 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 14:00 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020385 | 1 | 09/14/17 13:15 | 09/14/17 13:28 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/08/17 14:00 | 09/14/17 15:13 | ACG |

## B-907-25 L935266-09 Solid

Collected by: Shannon McKernan | Collected date/time: 09/08/17 08:30 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1020730 | 1 | 09/15/17 10:52 | 09/15/17 11:14 | KDW |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1020338 | 25 | 09/08/17 08:30 | 09/14/17 16:57 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 25 | 09/08/17 08:30 | 09/18/17 15:41 | JHH |

## TRIP BLANK-090817 L935266-10 GW

Collected by: Shannon McKernan | Collected date/time: 09/08/17 00:00 | Received date/time: 09/09/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1019184 | 1 | 09/12/17 13:44 | 09/12/17 13:44 | LRL |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.2 | | 1 | 09/15/2017 09:48 | WG1020726 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.29 | B J | 0.984 | 2.90 | 25 | 09/14/2017 16:13 | WG1020338 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.6* | | | *77.0-120* | | *09/14/2017 16:13* | WG1020338 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0116 | 0.0580 | 1 | 09/12/2017 21:19 | WG1019379 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Bromochloromethane | U | | 0.000453 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| Bromoform | U | | 0.000492 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Bromomethane | U | | 0.00156 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Carbon disulfide | 0.00107 | J | 0.000257 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Chloroethane | U | | 0.00110 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| Chloroform | U | | 0.000266 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| Chloromethane | U | | 0.000435 | 0.00290 | 1 | 09/12/2017 21:19 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000398 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000828 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2-Dichloroethane | U | J0 J4 | 0.000308 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000352 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000273 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000306 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000903 | 0.00290 | 1 | 09/12/2017 21:19 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |
| n-Hexane | 0.00322 | J | 0.000337 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 2-Butanone (MEK) | U | J0 | 0.00543 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Methylene Chloride | U | | 0.00116 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Naphthalene | U | | 0.00116 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Toluene | U | | 0.000504 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Trichloroethene | U | | 0.000324 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000860 | 0.00290 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Vinyl chloride | U | | 0.000338 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Xylenes, Total | U | | 0.000810 | 0.00348 | 1 | 09/12/2017 21:19 | WG1019379 |
| *(S) Toluene-d8* | *96.5* | | | *80.0-120* | | *09/12/2017 21:19* | WG1019379 |
| *(S) Dibromofluoromethane* | *98.5* | | | *74.0-131* | | *09/12/2017 21:19* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *95.7* | | | *64.0-132* | | *09/12/2017 21:19* | WG1019379 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.0 | | 1 | 09/15/2017 09:48 | WG1020726 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 1.05 | 3.11 | 26.75 | 09/14/2017 16:35 | WG1020338 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.2* | | | *77.0-120* | | *09/14/2017 16:35* | WG1020338 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0116 | 0.0581 | 1 | 09/12/2017 21:41 | WG1019379 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Benzene | U | | 0.000314 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Bromochloromethane | U | | 0.000454 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| Bromoform | U | | 0.000493 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Bromomethane | U | | 0.00156 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| n-Butylbenzene | U | | 0.000300 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| sec-Butylbenzene | U | | 0.000234 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| tert-Butylbenzene | U | | 0.000240 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Carbon disulfide | 0.000919 | J | 0.000257 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Chlorobenzene | U | | 0.000247 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Chlorodibromomethane | U | | 0.000434 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Chloroethane | U | | 0.00110 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| Chloroform | U | | 0.000266 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| Chloromethane | U | | 0.000436 | 0.00291 | 1 | 09/12/2017 21:41 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000350 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000399 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Dibromomethane | U | | 0.000444 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000278 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000263 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000829 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2-Dichloroethane | U | J0 J4 | 0.000308 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000352 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000273 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000307 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000369 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000241 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000305 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000311 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000905 | 0.00291 | 1 | 09/12/2017 21:41 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000398 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |
| n-Hexane | 0.00125 | J | 0.000337 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Isopropylbenzene | U | | 0.000283 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 2-Butanone (MEK) | U | J0 | 0.00544 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Methylene Chloride | U | | 0.00116 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00219 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Methyl tert-butyl ether | U | | 0.000247 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Naphthalene | U | | 0.00116 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| n-Propylbenzene | U | | 0.000240 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000307 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Tetrachloroethene | U | | 0.000321 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Toluene | U | | 0.000505 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000356 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000451 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000333 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Trichloroethene | U | | 0.000324 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000444 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000862 | 0.00291 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000334 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Vinyl acetate | U | | 0.00278 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Vinyl chloride | U | | 0.000338 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Xylenes, Total | U | | 0.000812 | 0.00349 | 1 | 09/12/2017 21:41 | WG1019379 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/12/2017 21:41* | WG1019379 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/12/2017 21:41* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *98.6* | | | *64.0-132* | | *09/12/2017 21:41* | WG1019379 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 77.7 | | 1 | 09/14/2017 13:28 | WG1020385 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0129 | 0.0643 | 1 | 09/12/2017 22:03 | WG1019379 |
| Acrylonitrile | U | | 0.00230 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Benzene | U | | 0.000347 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Bromobenzene | U | | 0.000366 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Bromodichloromethane | U | | 0.000327 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Bromochloromethane | U | | 0.000502 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| Bromoform | U | | 0.000546 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Bromomethane | U | | 0.00172 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| n-Butylbenzene | U | | 0.000332 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| sec-Butylbenzene | U | | 0.000259 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| tert-Butylbenzene | U | | 0.000265 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Carbon disulfide | U | | 0.000284 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Carbon tetrachloride | U | | 0.000422 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Chlorobenzene | U | | 0.000273 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Chlorodibromomethane | U | | 0.000480 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Chloroethane | U | | 0.00122 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| Chloroform | U | | 0.000295 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| Chloromethane | U | | 0.000483 | 0.00322 | 1 | 09/12/2017 22:03 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000387 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000309 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00135 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000441 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Dibromomethane | U | | 0.000492 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000393 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000308 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000291 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000918 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000256 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2-Dichloroethane | U | J0 J4 | 0.000341 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000390 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000302 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000340 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000461 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000408 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000266 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000337 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000344 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.00100 | 0.00322 | 1 | 09/12/2017 22:03 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000359 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Di-isopropyl ether | U | | 0.000319 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Ethylbenzene | U | | 0.000382 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000440 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 2-Hexanone | U | | 0.00176 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |
| n-Hexane | U | | 0.000373 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Iodomethane | U | | 0.00326 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Isopropylbenzene | U | | 0.000313 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000263 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 2-Butanone (MEK) | U | J0 | 0.00602 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Methylene Chloride | U | | 0.00129 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00242 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000273 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Naphthalene | U | | 0.00129 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| n-Propylbenzene | U | | 0.000265 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Styrene | U | | 0.000301 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000340 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000470 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000470 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Tetrachloroethene | U | | 0.000355 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Toluene | U | | 0.000559 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000394 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000499 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000368 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000356 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Trichloroethene | U | | 0.000359 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000492 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000954 | 0.00322 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000272 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000369 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000342 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Vinyl acetate | U | | 0.00308 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Vinyl chloride | U | | 0.000375 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Xylenes, Total | U | | 0.000898 | 0.00386 | 1 | 09/12/2017 22:03 | WG1019379 |
| *(S) Toluene-d8* | *97.0* | | | *80.0-120* | | *09/12/2017 22:03* | WG1019379 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/12/2017 22:03* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *98.4* | | | *64.0-132* | | *09/12/2017 22:03* | WG1019379 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.0 | | 1 | 09/14/2017 13:28 | WG1020385 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0121 | J J3 | 0.0111 | 0.0555 | 1 | 09/18/2017 13:29 | WG1019379 |
| Acrylonitrile | U | | 0.00199 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Benzene | U | | 0.000300 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Bromobenzene | U | | 0.000316 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Bromodichloromethane | U | | 0.000282 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Bromochloromethane | U | | 0.000433 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| Bromoform | U | | 0.000471 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Bromomethane | U | | 0.00149 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| n-Butylbenzene | U | | 0.000287 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| tert-Butylbenzene | U | | 0.000229 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Carbon disulfide | 0.000650 | J | 0.000246 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Carbon tetrachloride | U | | 0.000364 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Chlorobenzene | U | | 0.000236 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Chlorodibromomethane | U | | 0.000414 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Chloroethane | U | | 0.00105 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| Chloroform | U | | 0.000254 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| Chloromethane | U | J0 | 0.000417 | 0.00278 | 1 | 09/18/2017 13:29 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000334 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000267 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000381 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Dibromomethane | U | | 0.000424 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000266 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000251 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000792 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000221 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2-Dichloroethane | U | J4 | 0.000294 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000337 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000261 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000293 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000398 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000352 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000230 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000291 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000297 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000864 | 0.00278 | 1 | 09/18/2017 13:29 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000310 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Di-isopropyl ether | U | J0 | 0.000276 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Ethylbenzene | U | | 0.000330 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000380 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 2-Hexanone | U | | 0.00152 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |
| n-Hexane | 0.000642 | J | 0.000322 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Iodomethane | U | | 0.00281 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Isopropylbenzene | U | | 0.000270 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000227 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 2-Butanone (MEK) | U | | 0.00520 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Methylene Chloride | U | | 0.00111 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00209 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000236 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Naphthalene | U | | 0.00111 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| n-Propylbenzene | U | | 0.000229 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Styrene | U | | 0.000260 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000293 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000405 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000405 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Tetrachloroethene | U | | 0.000307 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Toluene | U | | 0.000482 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000340 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000431 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000318 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000308 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Trichloroethene | U | | 0.000310 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000424 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000823 | 0.00278 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000234 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000319 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000296 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Vinyl acetate | U | | 0.00266 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Vinyl chloride | U | | 0.000323 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Xylenes, Total | U | | 0.000775 | 0.00333 | 1 | 09/18/2017 13:29 | WG1019379 |
| *(S) Toluene-d8* | *98.7* | | | *80.0-120* | | *09/18/2017 13:29* | WG1019379 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/18/2017 13:29* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/18/2017 13:29* | WG1019379 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.2 | | 1 | 09/14/2017 13:28 | WG1020385 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0150 | J J3 | 0.0120 | 0.0601 | 1 | 09/18/2017 13:49 | WG1019379 |
| Acrylonitrile | U | | 0.00215 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Benzene | U | | 0.000325 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Bromobenzene | U | | 0.000341 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Bromodichloromethane | U | | 0.000305 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Bromochloromethane | U | | 0.000469 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| Bromoform | U | | 0.000510 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Bromomethane | U | | 0.00161 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| n-Butylbenzene | U | | 0.000310 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| sec-Butylbenzene | U | | 0.000242 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| tert-Butylbenzene | U | | 0.000248 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Carbon disulfide | 0.00148 | | 0.000266 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Carbon tetrachloride | U | | 0.000394 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Chlorobenzene | U | | 0.000255 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Chlorodibromomethane | U | | 0.000448 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Chloroethane | U | | 0.00114 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| Chloroform | U | | 0.000275 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| Chloromethane | U | J0 | 0.000451 | 0.00301 | 1 | 09/18/2017 13:49 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000362 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000288 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000412 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Dibromomethane | U | | 0.000459 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000287 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000272 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000857 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000239 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2-Dichloroethane | U | J4 | 0.000319 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000364 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000282 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000317 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000430 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000381 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000249 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000315 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000321 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000935 | 0.00301 | 1 | 09/18/2017 13:49 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000335 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Di-isopropyl ether | U | J0 | 0.000298 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Ethylbenzene | U | | 0.000357 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000411 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 2-Hexanone | U | | 0.00165 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |
| n-Hexane | 0.000620 | J | 0.000349 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Iodomethane | U | | 0.00304 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Isopropylbenzene | U | | 0.000292 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000245 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 2-Butanone (MEK) | U | | 0.00563 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Methylene Chloride | U | | 0.00120 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00226 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000255 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Naphthalene | U | | 0.00120 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| n-Propylbenzene | U | | 0.000248 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Styrene | U | | 0.000281 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000317 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000439 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000439 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Tetrachloroethene | U | | 0.000332 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Toluene | U | | 0.000522 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000368 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000466 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000344 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000333 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Trichloroethene | U | | 0.000335 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000459 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000891 | 0.00301 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000254 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000345 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000320 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Vinyl acetate | U | | 0.00287 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Vinyl chloride | U | | 0.000350 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Xylenes, Total | U | | 0.000839 | 0.00361 | 1 | 09/18/2017 13:49 | WG1019379 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/18/2017 13:49* | WG1019379 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/18/2017 13:49* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/18/2017 13:49* | WG1019379 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.5 | | 1 | 09/14/2017 13:28 | WG1020385 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0230 | J J3 | 0.0112 | 0.0559 | 1 | 09/18/2017 14:08 | WG1019379 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Benzene | U | | 0.000302 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Bromochloromethane | U | | 0.000436 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| Bromoform | U | | 0.000474 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Bromomethane | U | | 0.00150 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| sec-Butylbenzene | U | | 0.000225 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Carbon disulfide | 0.00203 | | 0.000247 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Carbon tetrachloride | U | | 0.000367 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Chlorodibromomethane | U | | 0.000417 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Chloroethane | U | | 0.00106 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| Chloroform | U | | 0.000256 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| Chloromethane | U | J0 | 0.000419 | 0.00279 | 1 | 09/18/2017 14:08 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000383 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Dibromomethane | U | | 0.000427 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000253 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000797 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2-Dichloroethane | U | J4 | 0.000296 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000339 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000263 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000295 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000400 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000354 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000293 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000870 | 0.00279 | 1 | 09/18/2017 14:08 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000312 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Di-isopropyl ether | U | J0 | 0.000277 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000382 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |
| n-Hexane | 0.000668 | J | 0.000324 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Isopropylbenzene | U | | 0.000272 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 2-Butanone (MEK) | U | | 0.00523 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Methylene Chloride | U | | 0.00112 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Naphthalene | U | | 0.00112 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Styrene | U | | 0.000262 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000408 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000408 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Tetrachloroethene | U | | 0.000309 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Toluene | U | | 0.000485 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000434 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000320 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000310 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Trichloroethene | U | | 0.000312 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000427 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000828 | 0.00279 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000321 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Vinyl chloride | U | | 0.000325 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Xylenes, Total | U | | 0.000780 | 0.00335 | 1 | 09/18/2017 14:08 | WG1019379 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/18/2017 14:08* | WG1019379 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/18/2017 14:08* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/18/2017 14:08* | WG1019379 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.1 | | 1 | 09/14/2017 13:28 | WG1020385 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0125 | J J3 | 0.0110 | 0.0549 | 1 | 09/18/2017 14:28 | WG1019379 |
| Acrylonitrile | U | | 0.00196 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Benzene | U | | 0.000296 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Bromobenzene | U | | 0.000312 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Bromodichloromethane | U | | 0.000279 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Bromochloromethane | U | | 0.000428 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| Bromoform | U | | 0.000465 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Bromomethane | U | | 0.00147 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| n-Butylbenzene | U | | 0.000283 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| tert-Butylbenzene | U | | 0.000226 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Carbon disulfide | 0.00135 | | 0.000243 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Carbon tetrachloride | U | | 0.000360 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Chlorodibromomethane | U | | 0.000409 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Chloroethane | U | | 0.00104 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| Chloroform | U | | 0.000251 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| Chloromethane | U | J0 | 0.000412 | 0.00274 | 1 | 09/18/2017 14:28 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000330 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000263 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000377 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Dibromomethane | U | | 0.000419 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000335 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000262 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000248 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000783 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000218 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2-Dichloroethane | U | J4 | 0.000291 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000333 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000258 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000290 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000393 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000348 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000227 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000288 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000293 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000854 | 0.00274 | 1 | 09/18/2017 14:28 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000306 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Di-isopropyl ether | U | J0 | 0.000272 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Ethylbenzene | U | | 0.000326 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000375 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 2-Hexanone | U | | 0.00150 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |
| n-Hexane | 0.00343 | J | 0.000318 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Iodomethane | U | | 0.00278 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Isopropylbenzene | U | | 0.000267 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000224 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 2-Butanone (MEK) | U | | 0.00514 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Methylene Chloride | U | | 0.00110 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00206 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Naphthalene | U | | 0.00110 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| n-Propylbenzene | U | | 0.000226 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Styrene | U | | 0.000257 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000290 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000401 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000401 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Tetrachloroethene | U | | 0.000303 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Toluene | U | | 0.000476 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000426 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000314 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000304 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Trichloroethene | U | | 0.000306 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000419 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000813 | 0.00274 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000315 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000292 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Vinyl acetate | U | | 0.00262 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Vinyl chloride | U | | 0.000319 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Xylenes, Total | U | | 0.000766 | 0.00329 | 1 | 09/18/2017 14:28 | WG1019379 |
| *(S) Toluene-d8* | *97.2* | | | *80.0-120* | | *09/18/2017 14:28* | WG1019379 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/18/2017 14:28* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/18/2017 14:28* | WG1019379 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 79.0 | | 1 | 09/14/2017 13:28 | WG1020385 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0127 | 0.0633 | 1 | 09/14/2017 15:13 | WG1020390 |
| Acrylonitrile | U | | 0.00226 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Benzene | U | | 0.000342 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Bromobenzene | U | J0 | 0.000359 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Bromodichloromethane | U | | 0.000321 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Bromochloromethane | U | | 0.000493 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 |
| Bromoform | U | | 0.000537 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Bromomethane | U | | 0.00170 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 |
| n-Butylbenzene | U | | 0.000326 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| sec-Butylbenzene | U | | 0.000254 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| tert-Butylbenzene | U | | 0.000261 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Carbon disulfide | U | | 0.000280 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Carbon tetrachloride | U | | 0.000415 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Chlorobenzene | U | | 0.000268 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Chlorodibromomethane | U | | 0.000472 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Chloroethane | U | J0 | 0.00120 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 |
| Chloroform | U | | 0.000290 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 |
| Chloromethane | U | J0 | 0.000475 | 0.00316 | 1 | 09/14/2017 15:13 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000381 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000304 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00133 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000434 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Dibromomethane | U | | 0.000483 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000386 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000302 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000286 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000902 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000252 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000335 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000383 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000297 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000334 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000453 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000401 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000262 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000332 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000338 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000984 | 0.00316 | 1 | 09/14/2017 15:13 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000353 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Di-isopropyl ether | U | | 0.000314 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Ethylbenzene | U | | 0.000376 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000433 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 2-Hexanone | U | | 0.00173 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 |
| n-Hexane | 0.000426 | J J0 | 0.000367 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Iodomethane | U | | 0.00320 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Isopropylbenzene | U | | 0.000307 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000258 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.00592 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Methylene Chloride | U | | 0.00127 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00238 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000268 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Naphthalene | U | | 0.00127 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 |
| n-Propylbenzene | U | | 0.000261 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Styrene | U | | 0.000296 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000334 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000462 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000462 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Tetrachloroethene | U | | 0.000349 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Toluene | U | | 0.000549 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000387 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000491 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000362 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000351 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Trichloroethene | U | | 0.000353 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000483 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000938 | 0.00316 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.000267 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.000363 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000337 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Vinyl acetate | U | | 0.00302 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Vinyl chloride | U | | 0.000368 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Xylenes, Total | U | | 0.000883 | 0.00380 | 1 | 09/14/2017 15:13 | WG1020390 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/14/2017 15:13* | WG1020390 |
| *(S) Dibromofluoromethane* | *89.9* | | | *74.0-131* | | *09/14/2017 15:13* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *89.3* | | | *64.0-132* | | *09/14/2017 15:13* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.7 | | 1 | 09/15/2017 11:14 | WG1020730 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.16 | B J | 1.01 | 2.99 | 25 | 09/14/2017 16:57 | WG1020338 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.4* | | | *77.0-120* | | *09/14/2017 16:57* | WG1020338 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.299 | 1.49 | 25 | 09/18/2017 15:41 | WG1020390 |
| Acrylonitrile | U | | 0.0536 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Benzene | U | | 0.00807 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Bromobenzene | U | | 0.00849 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Bromodichloromethane | U | | 0.00759 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Bromochloromethane | U | | 0.0117 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| Bromoform | U | | 0.0127 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Bromomethane | U | | 0.0400 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| n-Butylbenzene | U | | 0.00771 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| sec-Butylbenzene | U | | 0.00600 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| tert-Butylbenzene | U | | 0.00616 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Carbon disulfide | U | | 0.00660 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Carbon tetrachloride | U | | 0.00980 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Chlorobenzene | U | | 0.00634 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Chlorodibromomethane | U | | 0.0111 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Chloroethane | U | | 0.0282 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| Chloroform | U | | 0.00684 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| Chloromethane | U | J0 | 0.0112 | 0.0747 | 25 | 09/18/2017 15:41 | WG1020390 |
| 2-Chlorotoluene | U | | 0.00899 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 4-Chlorotoluene | U | | 0.00717 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0313 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.0103 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Dibromomethane | U | | 0.0114 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.00911 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.00715 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.00675 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.0213 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.00595 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.00791 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.00906 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.00703 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.00789 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.0107 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.00947 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.00619 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.00783 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.00799 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.0232 | 0.0747 | 25 | 09/18/2017 15:41 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.00834 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Di-isopropyl ether | U | J0 | 0.00741 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Ethylbenzene | U | | 0.00887 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.0102 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 2-Hexanone | U | | 0.0409 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |
| n-Hexane | U | | 0.00867 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0755 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Isopropylbenzene | U | | 0.00727 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| p-Isopropyltoluene | U | | 0.00610 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 2-Butanone (MEK) | U | | 0.140 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Methylene Chloride | U | | 0.0299 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0562 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Methyl tert-butyl ether | U | | 0.00634 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Naphthalene | U | | 0.0299 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| n-Propylbenzene | U | | 0.00616 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Styrene | U | | 0.00699 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00789 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0109 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0109 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Tetrachloroethene | U | | 0.00825 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Toluene | U | | 0.0129 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.00914 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.0116 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.00855 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.00827 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Trichloroethene | U | | 0.00834 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Trichlorofluoromethane | U | | 0.0114 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.0221 | 0.0747 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | | 0.00631 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | | 0.00858 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.00795 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Vinyl acetate | U | | 0.0715 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Vinyl chloride | U | | 0.00870 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Xylenes, Total | U | | 0.0208 | 0.0897 | 25 | 09/18/2017 15:41 | WG1020390 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/18/2017 15:41* | WG1020390 |
| *(S) Dibromofluoromethane* | *95.3* | | | *74.0-131* | | *09/18/2017 15:41* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/18/2017 15:41* | WG1020390 |

**Sample Narrative:**

L935266-09 WG1020390: Elevated RL. IS failed in both 1x analysis due to matrix interference. Reported from MEOH vial.

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1.05 | 25.0 | 1 | 09/12/2017 13:44 | WG1019184 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/12/2017 13:44 | WG1019184 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/12/2017 13:44 | WG1019184 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/12/2017 13:44 | WG1019184 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/12/2017 13:44 | WG1019184 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Trichloroethene | 0.690 | | 0.153 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/12/2017 13:44 | WG1019184 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/12/2017 13:44* | WG1019184 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *09/12/2017 13:44* | WG1019184 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *09/12/2017 13:44* | WG1019184 |

## Method Blank (MB)

(MB) R3249490-1 09/14/17 13:28

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000900 | | | |

## L935266-03 Original Sample (OS) • Duplicate (DUP)

(OS) L935266-03 09/14/17 13:28 • (DUP) R3249490-3 09/14/17 13:28

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 77.7 | 77.4 | 1 | 0.392 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3249490-2 09/14/17 13:28

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3249769-1 09/15/17 09:48

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L935266-02 Original Sample (OS) • Duplicate (DUP)

(OS) L935266-02 09/15/17 09:48 • (DUP) R3249769-3 09/15/17 09:48

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 86.0 | 86.4 | 1 | 0.449 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3249769-2 09/15/17 09:48

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3249774-1 09/15/17 11:14

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.00100 | | | |

## L935270-01 Original Sample (OS) • Duplicate (DUP)

(OS) L935270-01 09/15/17 11:14 • (DUP) R3249774-3 09/15/17 11:14

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 77.5 | 81.2 | 1 | 4.63 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3249774-2 09/15/17 11:14

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3249508-3 09/14/17 12:40

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C6 - C12 | 0.0413 | J | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.3* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3249508-1 09/14/17 11:34 • (LCSD) R3249508-2 09/14/17 11:56

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C6 - C12 | 5.50 | 5.48 | 5.80 | 99.6 | 105 | 70.0-133 | | | 5.77 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *108* | *108* | *77.0-120* | | | | |

## L935266-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L935266-01 09/14/17 16:13 • (MS) R3249508-4 09/14/17 21:22 • (MSD) R3249508-5 09/14/17 21:44

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C6 - C12 | 6.38 | 1.29 | 128 | 140 | 79.2 | 86.9 | 25 | 10.0-146 | | | 9.19 | 30 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *103* | *104* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3248904-5 09/12/17 10:49

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3248904-5 09/12/17 10:49

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | ug/l | | ug/l | ug/l |
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248904-1 09/12/17 09:08 • (LCSD) R3248904-2 09/12/17 09:29

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 156 | 149 | 125 | 120 | 10.0-160 | | | 4.06 | 23 |
| Acrylonitrile | 125 | 140 | 137 | 112 | 109 | 60.0-142 | | | 2.23 | 20 |
| Benzene | 25.0 | 25.6 | 25.7 | 102 | 103 | 69.0-123 | | | 0.680 | 20 |
| Bromobenzene | 25.0 | 23.3 | 23.7 | 93.3 | 94.9 | 79.0-120 | | | 1.75 | 20 |
| Bromodichloromethane | 25.0 | 25.7 | 25.9 | 103 | 104 | 76.0-120 | | | 0.980 | 20 |
| Bromochloromethane | 25.0 | 26.6 | 26.4 | 107 | 106 | 76.0-122 | | | 0.930 | 20 |
| Bromoform | 25.0 | 26.1 | 26.0 | 104 | 104 | 67.0-132 | | | 0.560 | 20 |
| Bromomethane | 25.0 | 25.4 | 24.9 | 102 | 99.7 | 18.0-160 | | | 2.03 | 20 |
| n-Butylbenzene | 25.0 | 26.8 | 27.1 | 107 | 108 | 72.0-126 | | | 1.34 | 20 |
| sec-Butylbenzene | 25.0 | 25.2 | 25.6 | 101 | 102 | 74.0-121 | | | 1.29 | 20 |
| tert-Butylbenzene | 25.0 | 24.7 | 25.1 | 99.0 | 100 | 75.0-122 | | | 1.31 | 20 |
| Carbon disulfide | 25.0 | 25.7 | 25.9 | 103 | 104 | 55.0-127 | | | 0.620 | 20 |
| Carbon tetrachloride | 25.0 | 24.6 | 24.9 | 98.5 | 99.5 | 63.0-122 | | | 0.990 | 20 |
| Chlorobenzene | 25.0 | 25.3 | 25.6 | 101 | 102 | 79.0-121 | | | 1.41 | 20 |
| Chlorodibromomethane | 25.0 | 26.4 | 26.5 | 106 | 106 | 75.0-125 | | | 0.610 | 20 |
| Chloroethane | 25.0 | 25.3 | 25.3 | 101 | 101 | 47.0-152 | | | 0.0500 | 20 |
| Chloroform | 25.0 | 25.9 | 25.8 | 103 | 103 | 72.0-121 | | | 0.100 | 20 |
| Chloromethane | 25.0 | 23.0 | 23.2 | 92.2 | 92.9 | 48.0-139 | | | 0.800 | 20 |
| 2-Chlorotoluene | 25.0 | 24.5 | 24.6 | 98.0 | 98.5 | 74.0-122 | | | 0.580 | 20 |
| 4-Chlorotoluene | 25.0 | 24.2 | 24.7 | 96.9 | 99.0 | 79.0-120 | | | 2.08 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 24.7 | 24.5 | 98.7 | 98.2 | 64.0-127 | | | 0.560 | 20 |
| 1,2-Dibromoethane | 25.0 | 26.2 | 26.3 | 105 | 105 | 77.0-123 | | | 0.480 | 20 |
| Dibromomethane | 25.0 | 26.1 | 26.2 | 104 | 105 | 78.0-120 | | | 0.520 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 25.2 | 25.3 | 101 | 101 | 80.0-120 | | | 0.510 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 25.2 | 25.0 | 101 | 99.9 | 72.0-123 | | | 0.750 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 24.3 | 24.7 | 97.3 | 98.9 | 77.0-120 | | | 1.62 | 20 |
| Dichlorodifluoromethane | 25.0 | 24.8 | 24.6 | 99.2 | 98.4 | 49.0-155 | | | 0.830 | 20 |
| 1,1-Dichloroethane | 25.0 | 26.3 | 26.2 | 105 | 105 | 70.0-126 | | | 0.480 | 20 |
| 1,2-Dichloroethane | 25.0 | 26.6 | 26.5 | 106 | 106 | 67.0-126 | | | 0.460 | 20 |
| 1,1-Dichloroethene | 25.0 | 26.1 | 26.4 | 104 | 106 | 64.0-129 | | | 1.31 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 25.7 | 25.6 | 103 | 102 | 73.0-120 | | | 0.400 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 25.9 | 26.1 | 104 | 104 | 71.0-121 | | | 0.590 | 20 |
| 1,2-Dichloropropane | 25.0 | 26.9 | 27.0 | 108 | 108 | 75.0-125 | | | 0.380 | 20 |
| 1,1-Dichloropropene | 25.0 | 26.0 | 26.3 | 104 | 105 | 71.0-129 | | | 1.29 | 20 |
| 1,3-Dichloropropane | 25.0 | 25.5 | 26.1 | 102 | 104 | 80.0-121 | | | 2.05 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 28.7 | 29.0 | 115 | 116 | 79.0-123 | | | 0.900 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 28.4 | 28.5 | 114 | 114 | 74.0-127 | | | 0.140 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 22.9 | 23.2 | 91.4 | 92.9 | 55.0-134 | | | 1.56 | 20 |
| 2,2-Dichloropropane | 25.0 | 24.9 | 24.7 | 99.7 | 98.9 | 60.0-125 | | | 0.760 | 20 |
| Di-isopropyl ether | 25.0 | 26.2 | 26.1 | 105 | 104 | 59.0-133 | | | 0.410 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248904-1 09/12/17 09:08 • (LCSD) R3248904-2 09/12/17 09:29

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 24.8 | 25.3 | 99.2 | 101 | 77.0-120 | | | 1.78 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 27.3 | 27.6 | 109 | 111 | 64.0-131 | | | 1.20 | 20 |
| 2-Hexanone | 125 | 144 | 146 | 115 | 117 | 58.0-147 | | | 1.17 | 20 |
| n-Hexane | 25.0 | 27.1 | 27.5 | 109 | 110 | 56.0-124 | | | 1.52 | 20 |
| Iodomethane | 125 | 134 | 133 | 107 | 107 | 57.0-140 | | | 0.180 | 20 |
| Isopropylbenzene | 25.0 | 24.2 | 24.8 | 96.7 | 99.2 | 75.0-120 | | | 2.61 | 20 |
| p-Isopropyltoluene | 25.0 | 26.3 | 26.5 | 105 | 106 | 74.0-126 | | | 0.800 | 20 |
| 2-Butanone (MEK) | 125 | 119 | 118 | 94.8 | 94.4 | 37.0-158 | | | 0.420 | 20 |
| Methylene Chloride | 25.0 | 25.8 | 25.8 | 103 | 103 | 66.0-121 | | | 0.0800 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 137 | 137 | 110 | 110 | 59.0-143 | | | 0.0500 | 20 |
| Methyl tert-butyl ether | 25.0 | 25.5 | 25.3 | 102 | 101 | 64.0-123 | | | 0.810 | 20 |
| Naphthalene | 25.0 | 24.5 | 25.1 | 98.2 | 100 | 62.0-128 | | | 2.12 | 20 |
| n-Propylbenzene | 25.0 | 24.9 | 25.4 | 99.7 | 102 | 79.0-120 | | | 1.84 | 20 |
| Styrene | 25.0 | 25.5 | 25.9 | 102 | 104 | 78.0-124 | | | 1.65 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 25.5 | 25.6 | 102 | 103 | 75.0-122 | | | 0.540 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 26.0 | 26.2 | 104 | 105 | 71.0-122 | | | 0.750 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 26.8 | 26.9 | 107 | 108 | 61.0-136 | | | 0.410 | 20 |
| Tetrachloroethene | 25.0 | 24.8 | 25.2 | 99.3 | 101 | 70.0-127 | | | 1.36 | 20 |
| Toluene | 25.0 | 24.6 | 24.9 | 98.2 | 99.5 | 77.0-120 | | | 1.34 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 27.7 | 28.0 | 111 | 112 | 61.0-133 | | | 1.02 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 27.4 | 27.2 | 110 | 109 | 69.0-129 | | | 0.550 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 25.8 | 26.0 | 103 | 104 | 68.0-122 | | | 0.620 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 26.2 | 26.1 | 105 | 104 | 78.0-120 | | | 0.360 | 20 |
| Trichloroethene | 25.0 | 24.5 | 25.2 | 98.1 | 101 | 78.0-120 | | | 2.54 | 20 |
| Trichlorofluoromethane | 25.0 | 25.7 | 25.6 | 103 | 103 | 56.0-137 | | | 0.430 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 25.6 | 25.4 | 102 | 101 | 72.0-124 | | | 0.870 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 25.2 | 25.1 | 101 | 100 | 75.0-120 | | | 0.420 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 23.2 | 23.3 | 92.9 | 93.1 | 75.0-120 | | | 0.170 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 24.5 | 25.0 | 97.9 | 100 | 75.0-120 | | | 2.06 | 20 |
| Vinyl acetate | 125 | 177 | 175 | 141 | 140 | 46.0-160 | | | 0.720 | 20 |
| Vinyl chloride | 25.0 | 25.1 | 25.2 | 100 | 101 | 64.0-133 | | | 0.370 | 20 |
| Xylenes, Total | 75.0 | 75.2 | 76.4 | 100 | 102 | 77.0-120 | | | 1.58 | 20 |
| *(S) Toluene-d8* | | | | *102* | *101* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *103* | *101* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *101* | *101* | *80.0-120* | | | | |

## Method Blank (MB)

(MB) R3248785-3 09/12/17 11:54

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3248785-3 09/12/17 11:54

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | 0.00232 | J | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *94.7* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *97.1* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248785-1 09/12/17 10:27 • (LCSD) R3248785-6 09/12/17 20:06

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0613 | 0.0800 | 49.1 | 64.0 | 11.0-160 | | J3 | 26.4 | 23 |
| Benzene | 0.0250 | 0.0240 | 0.0273 | 96.0 | 109 | 71.0-124 | | | 12.8 | 20 |
| Acrylonitrile | 0.125 | 0.113 | 0.121 | 90.7 | 97.1 | 61.0-143 | | | 6.84 | 20 |
| Bromobenzene | 0.0250 | 0.0199 | 0.0220 | 79.7 | 88.0 | 78.0-120 | | | 10.0 | 20 |
| Bromodichloromethane | 0.0250 | 0.0200 | 0.0226 | 80.1 | 90.6 | 75.0-120 | | | 12.3 | 20 |
| Bromochloromethane | 0.0250 | 0.0240 | 0.0264 | 96.0 | 106 | 80.0-121 | | | 9.54 | 20 |
| Bromoform | 0.0250 | 0.0209 | 0.0227 | 83.4 | 90.8 | 65.0-133 | | | 8.51 | 20 |
| Bromomethane | 0.0250 | 0.0204 | 0.0236 | 81.6 | 94.5 | 26.0-160 | | | 14.6 | 20 |
| n-Butylbenzene | 0.0250 | 0.0211 | 0.0244 | 84.6 | 97.7 | 73.0-126 | | | 14.4 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0224 | 0.0255 | 89.6 | 102 | 75.0-121 | | | 12.8 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0223 | 0.0251 | 89.2 | 100 | 74.0-122 | | | 11.8 | 20 |
| Carbon disulfide | 0.0250 | 0.0221 | 0.0246 | 88.3 | 98.2 | 53.0-130 | | | 10.7 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0198 | 0.0225 | 79.1 | 90.1 | 66.0-123 | | | 13.0 | 20 |
| Chlorobenzene | 0.0250 | 0.0240 | 0.0274 | 95.9 | 110 | 79.0-121 | | | 13.2 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0222 | 0.0242 | 88.6 | 96.8 | 74.0-128 | | | 8.84 | 20 |
| Chloroethane | 0.0250 | 0.0191 | 0.0221 | 76.6 | 88.4 | 51.0-147 | | | 14.3 | 20 |
| Chloroform | 0.0250 | 0.0217 | 0.0249 | 86.9 | 99.5 | 73.0-123 | | | 13.4 | 20 |
| Chloromethane | 0.0250 | 0.0246 | 0.0285 | 98.2 | 114 | 51.0-138 | | | 14.9 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0206 | 0.0235 | 82.3 | 94.1 | 72.0-124 | | | 13.3 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0204 | 0.0234 | 81.4 | 93.7 | 78.0-120 | | | 14.0 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0198 | 0.0211 | 79.4 | 84.6 | 65.0-126 | | | 6.35 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0231 | 0.0249 | 92.3 | 99.4 | 78.0-122 | | | 7.39 | 20 |
| Dibromomethane | 0.0250 | 0.0204 | 0.0226 | 81.5 | 90.4 | 79.0-120 | | | 10.4 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0225 | 0.0256 | 90.1 | 102 | 80.0-120 | | | 12.6 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0226 | 0.0261 | 90.5 | 105 | 72.0-123 | | | 14.4 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0210 | 0.0243 | 83.9 | 97.1 | 77.0-120 | | | 14.7 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0196 | 0.0232 | 78.4 | 92.9 | 49.0-155 | | | 16.9 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0145 | 0.0152 | 58.0 | 60.7 | 68.0-126 | J4 | J4 | 4.64 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0230 | 0.0262 | 92.1 | 105 | 70.0-128 | | | 12.8 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0168 | 0.0187 | 67.3 | 74.8 | 69.0-128 | J4 | | 10.4 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0223 | 0.0257 | 89.2 | 103 | 63.0-131 | | | 14.1 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0233 | 0.0264 | 93.2 | 106 | 74.0-123 | | | 12.5 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0243 | 0.0279 | 97.1 | 112 | 72.0-122 | | | 13.9 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0238 | 0.0269 | 95.4 | 108 | 75.0-126 | | | 12.1 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0220 | 0.0246 | 88.2 | 98.6 | 72.0-130 | | | 11.1 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0222 | 0.0241 | 88.8 | 96.5 | 80.0-121 | | | 8.32 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0217 | 0.0243 | 87.0 | 97.4 | 80.0-125 | | | 11.3 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0204 | 0.0223 | 81.6 | 89.0 | 75.0-129 | | | 8.75 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0218 | 0.0250 | 87.1 | 100 | 60.0-129 | | | 13.9 | 20 |
| Ethylbenzene | 0.0250 | 0.0242 | 0.0278 | 97.0 | 111 | 77.0-120 | | | 13.6 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3248785-1 09/12/17 10:27 • (LCSD) R3248785-6 09/12/17 20:06

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Di-isopropyl ether | 0.0250 | 0.0251 | 0.0278 | 100 | 111 | 62.0-133 | | | 10.1 | 20 |
| 2-Hexanone | 0.125 | 0.0941 | 0.106 | 75.3 | 85.2 | 61.0-143 | | | 12.3 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0232 | 0.0258 | 92.9 | 103 | 68.0-128 | | | 10.7 | 20 |
| Isopropylbenzene | 0.0250 | 0.0217 | 0.0246 | 86.6 | 98.4 | 75.0-120 | | | 12.7 | 20 |
| n-Hexane | 0.0250 | 0.0259 | 0.0284 | 103 | 114 | 57.0-125 | | | 9.38 | 20 |
| Iodomethane | 0.125 | 0.119 | 0.140 | 94.8 | 112 | 67.0-132 | | | 16.6 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0221 | 0.0252 | 88.2 | 101 | 74.0-125 | | | 13.3 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0798 | 0.0933 | 63.8 | 74.6 | 37.0-159 | | | 15.6 | 20 |
| Methylene Chloride | 0.0250 | 0.0227 | 0.0254 | 90.7 | 102 | 67.0-123 | | | 11.3 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.100 | 0.105 | 80.4 | 83.7 | 60.0-144 | | | 4.00 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0210 | 0.0217 | 83.9 | 87.0 | 66.0-125 | | | 3.59 | 20 |
| n-Propylbenzene | 0.0250 | 0.0218 | 0.0249 | 87.3 | 99.7 | 78.0-120 | | | 13.2 | 20 |
| Styrene | 0.0250 | 0.0241 | 0.0272 | 96.6 | 109 | 78.0-124 | | | 11.9 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0239 | 0.0267 | 95.5 | 107 | 74.0-124 | | | 11.2 | 20 |
| Naphthalene | 0.0250 | 0.0191 | 0.0203 | 76.3 | 81.3 | 64.0-125 | | | 6.32 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0217 | 0.0234 | 86.7 | 93.6 | 73.0-120 | | | 7.67 | 20 |
| Tetrachloroethene | 0.0250 | 0.0262 | 0.0304 | 105 | 122 | 70.0-127 | | | 15.0 | 20 |
| Toluene | 0.0250 | 0.0240 | 0.0269 | 95.9 | 108 | 77.0-120 | | | 11.6 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0219 | 0.0259 | 87.4 | 104 | 64.0-135 | | | 16.9 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0206 | 0.0224 | 82.5 | 89.8 | 68.0-126 | | | 8.39 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0205 | 0.0240 | 82.2 | 95.9 | 70.0-127 | | | 15.4 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0218 | 0.0251 | 87.0 | 100 | 69.0-125 | | | 14.2 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0232 | 0.0252 | 92.7 | 101 | 78.0-120 | | | 8.29 | 20 |
| Trichloroethene | 0.0250 | 0.0236 | 0.0265 | 94.2 | 106 | 79.0-120 | | | 11.9 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0197 | 0.0226 | 78.6 | 90.5 | 59.0-136 | | | 14.0 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0189 | 0.0201 | 75.7 | 80.3 | 73.0-124 | | | 5.93 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0205 | 0.0235 | 81.9 | 93.9 | 75.0-120 | | | 13.5 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0213 | 0.0243 | 85.4 | 97.3 | 75.0-120 | | | 13.0 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0195 | 0.0219 | 78.1 | 87.5 | 76.0-120 | | | 11.4 | 20 |
| Vinyl acetate | 0.125 | 0.115 | 0.121 | 91.7 | 96.8 | 58.0-156 | | | 5.40 | 20 |
| Vinyl chloride | 0.0250 | 0.0224 | 0.0261 | 89.7 | 104 | 63.0-134 | | | 15.1 | 20 |
| Xylenes, Total | 0.0750 | 0.0741 | 0.0839 | 98.8 | 112 | 77.0-120 | | | 12.4 | 20 |
| *(S) Toluene-d8* | | | | *106* | *104* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *95.5* | *95.8* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *95.6* | *93.2* | *64.0-132* | | | | |

## L935438-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L935438-01 09/12/17 16:58 • (MS) R3248785-4 09/12/17 15:51 • (MSD) R3248785-5 09/12/17 16:13

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.208 | U | 0.0418 | 0.0488 | 20.1 | 23.5 | 1 | 10.0-160 | | | 15.3 | 36 |
| Benzene | 0.0415 | U | 0.00775 | 0.00887 | 18.7 | 21.3 | 1 | 13.0-146 | | | 13.4 | 27 |
| Bromobenzene | 0.0415 | U | 0.0139 | 0.0157 | 33.5 | 37.8 | 1 | 10.0-149 | | | 12.2 | 33 |
| Bromodichloromethane | 0.0415 | U | 0.0141 | 0.0162 | 34.0 | 38.9 | 1 | 15.0-142 | | | 13.4 | 28 |
| Acrylonitrile | 0.208 | U | 0.0875 | 0.106 | 42.2 | 50.8 | 1 | 14.0-160 | | | 18.6 | 33 |
| Bromochloromethane | 0.0415 | U | 0.00851 | 0.0104 | 20.5 | 25.0 | 1 | 24.0-146 | J6 | | 19.8 | 27 |
| Bromoform | 0.0415 | U | 0.0159 | 0.0200 | 38.2 | 48.1 | 1 | 10.0-147 | | | 22.9 | 31 |
| Bromomethane | 0.0415 | U | ND | ND | 0.000 | 0.000 | 1 | 10.0-160 | J6 | J6 | 0.000 | 32 |
| n-Butylbenzene | 0.0415 | U | 0.0169 | 0.0186 | 40.6 | 44.8 | 1 | 10.0-154 | | | 9.86 | 37 |
| sec-Butylbenzene | 0.0415 | U | 0.0178 | 0.0196 | 42.9 | 47.1 | 1 | 10.0-151 | | | 9.30 | 36 |
| tert-Butylbenzene | 0.0415 | U | 0.0178 | 0.0200 | 42.8 | 48.1 | 1 | 10.0-152 | | | 11.6 | 35 |
| Carbon disulfide | 0.0415 | U | ND | ND | 0.000 | 0.000 | 1 | 10.0-141 | J6 | J6 | 0.000 | 30 |
| Carbon tetrachloride | 0.0415 | U | 0.00807 | 0.00910 | 19.4 | 21.9 | 1 | 13.0-140 | | | 12.0 | 30 |
| Chlorobenzene | 0.0415 | U | 0.0138 | 0.0156 | 33.3 | 37.4 | 1 | 10.0-149 | | | 11.6 | 31 |
| Chlorodibromomethane | 0.0415 | U | 0.0164 | 0.0185 | 39.5 | 44.6 | 1 | 12.0-147 | | | 12.2 | 29 |
| Chloroethane | 0.0415 | U | 0.00201 | 0.00236 | 4.83 | 5.69 | 1 | 10.0-159 | J6 | J6 | 16.3 | 33 |
| Chloroform | 0.0415 | U | 0.0134 | 0.0154 | 32.2 | 37.0 | 1 | 18.0-148 | | | 13.9 | 28 |
| Chloromethane | 0.0415 | U | 0.00111 | 0.00105 | 2.67 | 2.53 | 1 | 10.0-146 | J6 | J6 | 5.43 | 29 |
| 2-Chlorotoluene | 0.0415 | U | 0.0147 | 0.0166 | 35.5 | 40.1 | 1 | 10.0-151 | | | 12.1 | 35 |
| 4-Chlorotoluene | 0.0415 | U | 0.0150 | 0.0170 | 36.0 | 40.9 | 1 | 10.0-150 | | | 12.7 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0415 | U | 0.0203 | 0.0255 | 48.9 | 61.4 | 1 | 10.0-149 | | | 22.6 | 34 |
| 1,2-Dibromoethane | 0.0415 | U | 0.0127 | 0.0152 | 30.5 | 36.6 | 1 | 14.0-145 | | | 18.2 | 28 |
| Dibromomethane | 0.0415 | U | 0.00969 | 0.0119 | 23.3 | 28.5 | 1 | 18.0-144 | | | 20.2 | 27 |
| 1,2-Dichlorobenzene | 0.0415 | U | 0.0177 | 0.0204 | 42.6 | 49.0 | 1 | 10.0-153 | | | 14.0 | 34 |
| 1,3-Dichlorobenzene | 0.0415 | U | 0.0171 | 0.0190 | 41.2 | 45.7 | 1 | 10.0-150 | | | 10.5 | 35 |
| 1,4-Dichlorobenzene | 0.0415 | U | 0.0163 | 0.0184 | 39.3 | 44.3 | 1 | 10.0-148 | | | 12.1 | 34 |
| Dichlorodifluoromethane | 0.0415 | U | 0.00233 | 0.00255 | 5.61 | 6.14 | 1 | 10.0-160 | J6 | J6 | 9.07 | 30 |
| 1,1-Dichloroethane | 0.0415 | U | 0.0107 | 0.0124 | 25.8 | 29.8 | 1 | 19.0-148 | | | 14.3 | 28 |
| 1,2-Dichloroethane | 0.0415 | U | 0.00828 | 0.00964 | 19.9 | 23.2 | 1 | 17.0-147 | | | 15.1 | 27 |
| trans-1,4-Dichloro-2-butene | 0.0415 | U | 0.0129 | 0.0170 | 31.2 | 40.9 | 1 | 10.0-160 | | | 27.0 | 40 |
| 1,1-Dichloroethene | 0.0415 | U | 0.00332 | 0.00391 | 7.98 | 9.41 | 1 | 10.0-150 | J6 | J6 | 16.4 | 31 |
| cis-1,2-Dichloroethene | 0.0415 | U | 0.00956 | 0.0109 | 23.0 | 26.2 | 1 | 16.0-145 | | | 13.0 | 28 |
| trans-1,2-Dichloroethene | 0.0415 | U | 0.00339 | 0.00387 | 8.17 | 9.31 | 1 | 11.0-142 | J6 | J6 | 13.1 | 29 |
| 1,2-Dichloropropane | 0.0415 | U | 0.0141 | 0.0163 | 34.0 | 39.2 | 1 | 17.0-148 | | | 14.2 | 28 |
| 1,1-Dichloropropene | 0.0415 | U | 0.00479 | 0.00551 | 11.5 | 13.3 | 1 | 10.0-150 | | | 14.0 | 30 |
| 1,3-Dichloropropane | 0.0415 | U | 0.0135 | 0.0163 | 32.4 | 39.1 | 1 | 16.0-148 | | | 18.8 | 27 |
| cis-1,3-Dichloropropene | 0.0415 | U | 0.0109 | 0.0127 | 26.3 | 30.6 | 1 | 13.0-150 | | | 15.3 | 28 |
| trans-1,3-Dichloropropene | 0.0415 | U | 0.0114 | 0.0134 | 27.5 | 32.2 | 1 | 10.0-152 | | | 15.8 | 29 |
| 2,2-Dichloropropane | 0.0415 | U | 0.0124 | 0.0145 | 29.7 | 34.8 | 1 | 16.0-143 | | | 15.8 | 30 |

## L935438-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L935438-01 09/12/17 16:58 • (MS) R3248785-4 09/12/17 15:51 • (MSD) R3248785-5 09/12/17 16:13

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0415 | U | 0.0134 | 0.0149 | 32.3 | 36.0 | 1 | 10.0-147 | | | 10.8 | 31 |
| Di-isopropyl ether | 0.0415 | U | 0.0164 | 0.0187 | 39.5 | 45.1 | 1 | 16.0-149 | | | 13.3 | 28 |
| 2-Hexanone | 0.208 | U | 0.0823 | 0.102 | 39.6 | 49.1 | 1 | 12.0-158 | | | 21.4 | 30 |
| Hexachloro-1,3-butadiene | 0.0415 | U | 0.0197 | 0.0213 | 47.3 | 51.2 | 1 | 10.0-154 | | | 7.94 | 40 |
| Isopropylbenzene | 0.0415 | U | 0.0149 | 0.0168 | 35.9 | 40.4 | 1 | 10.0-147 | | | 11.9 | 33 |
| p-Isopropyltoluene | 0.0415 | U | 0.0173 | 0.0190 | 41.6 | 45.8 | 1 | 10.0-156 | | | 9.64 | 37 |
| 2-Butanone (MEK) | 0.208 | U | 0.0585 | 0.0714 | 28.2 | 34.4 | 1 | 10.0-160 | | | 19.9 | 33 |
| n-Hexane | 0.0415 | U | 0.00238 | 0.00235 | 5.72 | 5.66 | 1 | 10.0-140 | J6 | J6 | 1.15 | 34 |
| Iodomethane | 0.208 | U | 0.0133 | 0.0154 | 6.42 | 7.44 | 1 | 10.0-157 | J6 | J6 | 14.6 | 34 |
| Methylene Chloride | 0.0415 | U | 0.00624 | 0.00739 | 15.0 | 17.8 | 1 | 16.0-139 | J6 | | 16.9 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.208 | U | 0.0888 | 0.109 | 42.8 | 52.7 | 1 | 12.0-160 | | | 20.8 | 32 |
| Methyl tert-butyl ether | 0.0415 | U | 0.0133 | 0.0165 | 32.1 | 39.6 | 1 | 21.0-145 | | | 21.1 | 29 |
| n-Propylbenzene | 0.0415 | U | 0.0150 | 0.0169 | 36.1 | 40.8 | 1 | 10.0-151 | | | 12.1 | 34 |
| Styrene | 0.0415 | U | 0.0155 | 0.0139 | 37.4 | 33.4 | 1 | 10.0-155 | | | 11.3 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0415 | U | 0.0181 | 0.0207 | 43.7 | 49.9 | 1 | 10.0-147 | | | 13.3 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0415 | U | 0.0195 | 0.0242 | 46.9 | 58.2 | 1 | 10.0-155 | | | 21.6 | 31 |
| Naphthalene | 0.0415 | U | 0.0175 | 0.0211 | 42.2 | 50.8 | 1 | 10.0-153 | | | 18.5 | 36 |
| Tetrachloroethene | 0.0415 | U | 0.00792 | 0.00898 | 19.1 | 21.6 | 1 | 10.0-144 | | | 12.5 | 32 |
| Toluene | 0.0415 | U | 0.00928 | 0.0105 | 22.3 | 25.4 | 1 | 10.0-144 | | | 12.8 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0415 | U | 0.00880 | 0.0100 | 21.2 | 24.2 | 1 | 10.0-153 | | | 13.3 | 33 |
| 1,2,3-Trichlorobenzene | 0.0415 | U | 0.0170 | 0.0199 | 40.9 | 47.8 | 1 | 10.0-153 | | | 15.7 | 40 |
| 1,2,4-Trichlorobenzene | 0.0415 | U | 0.0176 | 0.0201 | 42.4 | 48.3 | 1 | 10.0-156 | | | 13.2 | 40 |
| 1,1,1-Trichloroethane | 0.0415 | U | 0.0112 | 0.0128 | 27.0 | 30.9 | 1 | 18.0-145 | | | 13.6 | 29 |
| 1,1,2-Trichloroethane | 0.0415 | U | 0.0167 | 0.0200 | 40.2 | 48.1 | 1 | 12.0-151 | | | 17.9 | 28 |
| Trichloroethene | 0.0415 | 0.00298 | 0.0109 | 0.0117 | 19.1 | 21.0 | 1 | 11.0-148 | | | 6.76 | 29 |
| Trichlorofluoromethane | 0.0415 | U | 0.00471 | 0.00542 | 11.3 | 13.0 | 1 | 10.0-157 | | | 14.0 | 34 |
| 1,2,3-Trichloropropane | 0.0415 | U | 0.0167 | 0.0202 | 40.1 | 48.6 | 1 | 10.0-154 | | | 19.1 | 32 |
| 1,2,4-Trimethylbenzene | 0.0415 | U | 0.0152 | 0.0169 | 36.6 | 40.6 | 1 | 10.0-151 | | | 10.3 | 34 |
| 1,3,5-Trimethylbenzene | 0.0415 | U | 0.0150 | 0.0167 | 36.0 | 40.1 | 1 | 10.0-150 | | | 10.7 | 33 |
| Vinyl acetate | 0.208 | U | 0.0570 | 0.0667 | 27.4 | 32.1 | 1 | 10.0-160 | | | 15.7 | 40 |
| Vinyl chloride | 0.0415 | U | 0.00116 | 0.00133 | 2.80 | 3.20 | 1 | 10.0-150 | J6 | J6 | 13.2 | 29 |
| 1,2,3-Trimethylbenzene | 0.0415 | U | 0.0154 | 0.0177 | 37.1 | 42.6 | 1 | 10.0-150 | | | 13.9 | 33 |
| Xylenes, Total | 0.125 | U | 0.0410 | 0.0450 | 32.9 | 36.1 | 1 | 10.0-150 | | | 9.27 | 31 |
| *(S) Toluene-d8* | | | | | *98.1* | *96.8* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *100* | *102* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *93.7* | *94.8* | | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3250116-3 09/14/17 12:51

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3250116-3 09/14/17 12:51

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *92.1* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *87.5* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3250116-1 09/14/17 10:41 • (LCSD) R3250116-2 09/14/17 11:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0741 | 0.0814 | 59.3 | 65.1 | 11.0-160 | | | 9.34 | 23 |
| Acrylonitrile | 0.125 | 0.0983 | 0.0967 | 78.7 | 77.4 | 61.0-143 | | | 1.65 | 20 |
| Benzene | 0.0250 | 0.0209 | 0.0215 | 83.7 | 85.8 | 71.0-124 | | | 2.47 | 20 |
| Bromobenzene | 0.0250 | 0.0197 | 0.0210 | 78.9 | 83.8 | 78.0-120 | | | 6.08 | 20 |
| Bromodichloromethane | 0.0250 | 0.0221 | 0.0227 | 88.2 | 90.9 | 75.0-120 | | | 2.99 | 20 |
| Bromochloromethane | 0.0250 | 0.0231 | 0.0225 | 92.5 | 90.2 | 80.0-121 | | | 2.57 | 20 |
| Bromoform | 0.0250 | 0.0229 | 0.0240 | 91.5 | 95.8 | 65.0-133 | | | 4.63 | 20 |
| Bromomethane | 0.0250 | 0.0189 | 0.0203 | 75.4 | 81.2 | 26.0-160 | | | 7.35 | 20 |
| n-Butylbenzene | 0.0250 | 0.0211 | 0.0223 | 84.4 | 89.2 | 73.0-126 | | | 5.52 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0210 | 0.0222 | 83.8 | 89.0 | 75.0-121 | | | 6.00 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0210 | 0.0226 | 84.0 | 90.4 | 74.0-122 | | | 7.28 | 20 |
| Carbon disulfide | 0.0250 | 0.0193 | 0.0207 | 77.4 | 82.9 | 53.0-130 | | | 6.90 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0212 | 0.0224 | 84.9 | 89.4 | 66.0-123 | | | 5.21 | 20 |
| Chlorobenzene | 0.0250 | 0.0248 | 0.0273 | 99.2 | 109 | 79.0-121 | | | 9.77 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0245 | 0.0268 | 97.9 | 107 | 74.0-128 | | | 9.18 | 20 |
| Chloroethane | 0.0250 | 0.0173 | 0.0187 | 69.3 | 75.0 | 51.0-147 | | | 7.88 | 20 |
| Chloroform | 0.0250 | 0.0208 | 0.0219 | 83.1 | 87.4 | 73.0-123 | | | 5.00 | 20 |
| Chloromethane | 0.0250 | 0.0154 | 0.0166 | 61.8 | 66.3 | 51.0-138 | | | 7.08 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0207 | 0.0220 | 82.7 | 87.8 | 72.0-124 | | | 5.97 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0198 | 0.0213 | 79.3 | 85.2 | 78.0-120 | | | 7.23 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0225 | 0.0228 | 90.2 | 91.0 | 65.0-126 | | | 0.960 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0244 | 0.0259 | 97.8 | 104 | 78.0-122 | | | 5.86 | 20 |
| Dibromomethane | 0.0250 | 0.0219 | 0.0232 | 87.5 | 92.7 | 79.0-120 | | | 5.72 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0229 | 0.0244 | 91.4 | 97.4 | 80.0-120 | | | 6.39 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0232 | 0.0245 | 92.8 | 98.0 | 72.0-123 | | | 5.48 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0212 | 0.0224 | 84.9 | 89.8 | 77.0-120 | | | 5.57 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0213 | 0.0190 | 85.0 | 76.2 | 68.0-126 | | | 10.9 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0186 | 0.0199 | 74.4 | 79.8 | 49.0-155 | | | 6.92 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0215 | 0.0215 | 85.9 | 86.0 | 70.0-128 | | | 0.120 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0219 | 0.0214 | 87.6 | 85.8 | 69.0-128 | | | 2.10 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0195 | 0.0211 | 77.9 | 84.4 | 63.0-131 | | | 8.00 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0198 | 0.0206 | 79.1 | 82.2 | 74.0-123 | | | 3.81 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0200 | 0.0208 | 79.9 | 83.2 | 72.0-122 | | | 4.04 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0220 | 0.0229 | 87.8 | 91.5 | 75.0-126 | | | 4.14 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0210 | 0.0215 | 84.0 | 86.0 | 72.0-130 | | | 2.31 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0243 | 0.0261 | 97.0 | 104 | 80.0-121 | | | 7.38 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0259 | 0.0277 | 103 | 111 | 80.0-125 | | | 6.82 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0261 | 0.0277 | 104 | 111 | 75.0-129 | | | 5.93 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0204 | 0.0212 | 81.7 | 84.6 | 60.0-129 | | | 3.54 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0189 | 0.0191 | 75.6 | 76.5 | 62.0-133 | | | 1.13 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3250116-1 09/14/17 10:41 • (LCSD) R3250116-2 09/14/17 11:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0231 | 0.0250 | 92.5 | 100 | 77.0-120 | | | 7.86 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0238 | 0.0254 | 95.4 | 101 | 68.0-128 | | | 6.11 | 20 |
| 2-Hexanone | 0.125 | 0.109 | 0.112 | 87.2 | 89.3 | 61.0-143 | | | 2.28 | 20 |
| n-Hexane | 0.0250 | 0.0175 | 0.0188 | 70.0 | 75.2 | 57.0-125 | | | 7.13 | 20 |
| Iodomethane | 0.125 | 0.126 | 0.132 | 101 | 106 | 67.0-132 | | | 5.09 | 20 |
| Isopropylbenzene | 0.0250 | 0.0204 | 0.0218 | 81.6 | 87.0 | 75.0-120 | | | 6.42 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0218 | 0.0234 | 87.3 | 93.7 | 74.0-125 | | | 7.08 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0952 | 0.0907 | 76.2 | 72.5 | 37.0-159 | | | 4.89 | 20 |
| Methylene Chloride | 0.0250 | 0.0189 | 0.0198 | 75.7 | 79.3 | 67.0-123 | | | 4.69 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.111 | 0.113 | 89.1 | 90.1 | 60.0-144 | | | 1.10 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0196 | 0.0205 | 78.2 | 81.9 | 66.0-125 | | | 4.51 | 20 |
| Naphthalene | 0.0250 | 0.0204 | 0.0222 | 81.8 | 88.7 | 64.0-125 | | | 8.17 | 20 |
| n-Propylbenzene | 0.0250 | 0.0205 | 0.0220 | 82.1 | 88.0 | 78.0-120 | | | 6.95 | 20 |
| Styrene | 0.0250 | 0.0212 | 0.0226 | 84.9 | 90.5 | 78.0-124 | | | 6.43 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0237 | 0.0258 | 94.8 | 103 | 74.0-124 | | | 8.69 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0199 | 0.0209 | 79.4 | 83.6 | 73.0-120 | | | 5.08 | 20 |
| Tetrachloroethene | 0.0250 | 0.0268 | 0.0291 | 107 | 116 | 70.0-127 | | | 8.13 | 20 |
| Toluene | 0.0250 | 0.0223 | 0.0240 | 89.1 | 96.1 | 77.0-120 | | | 7.63 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0205 | 0.0219 | 82.1 | 87.6 | 64.0-135 | | | 6.48 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0233 | 0.0253 | 93.3 | 101 | 68.0-126 | | | 8.24 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0236 | 0.0249 | 94.3 | 99.7 | 70.0-127 | | | 5.59 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0207 | 0.0214 | 83.0 | 85.7 | 69.0-125 | | | 3.24 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0226 | 0.0243 | 90.3 | 97.1 | 78.0-120 | | | 7.23 | 20 |
| Trichloroethene | 0.0250 | 0.0238 | 0.0249 | 95.4 | 99.7 | 79.0-120 | | | 4.47 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0229 | 0.0241 | 91.5 | 96.2 | 59.0-136 | | | 4.98 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0202 | 0.0210 | 80.9 | 84.2 | 73.0-124 | | | 3.98 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0193 | 0.0205 | 77.1 | 82.0 | 76.0-120 | | | 6.13 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0194 | 0.0206 | 77.6 | 82.4 | 75.0-120 | | | 5.99 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0205 | 0.0223 | 82.1 | 89.1 | 75.0-120 | | | 8.17 | 20 |
| Vinyl acetate | 0.125 | 0.111 | 0.110 | 88.8 | 88.4 | 58.0-156 | | | 0.510 | 20 |
| Vinyl chloride | 0.0250 | 0.0199 | 0.0211 | 79.7 | 84.2 | 63.0-134 | | | 5.52 | 20 |
| Xylenes, Total | 0.0750 | 0.0683 | 0.0740 | 91.1 | 98.7 | 77.0-120 | | | 8.01 | 20 |
| *(S) Toluene-d8* | | | | *106* | *109* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *92.7* | *90.8* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *87.9* | *87.3* | *64.0-132* | | | | |

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |

# ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.



## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

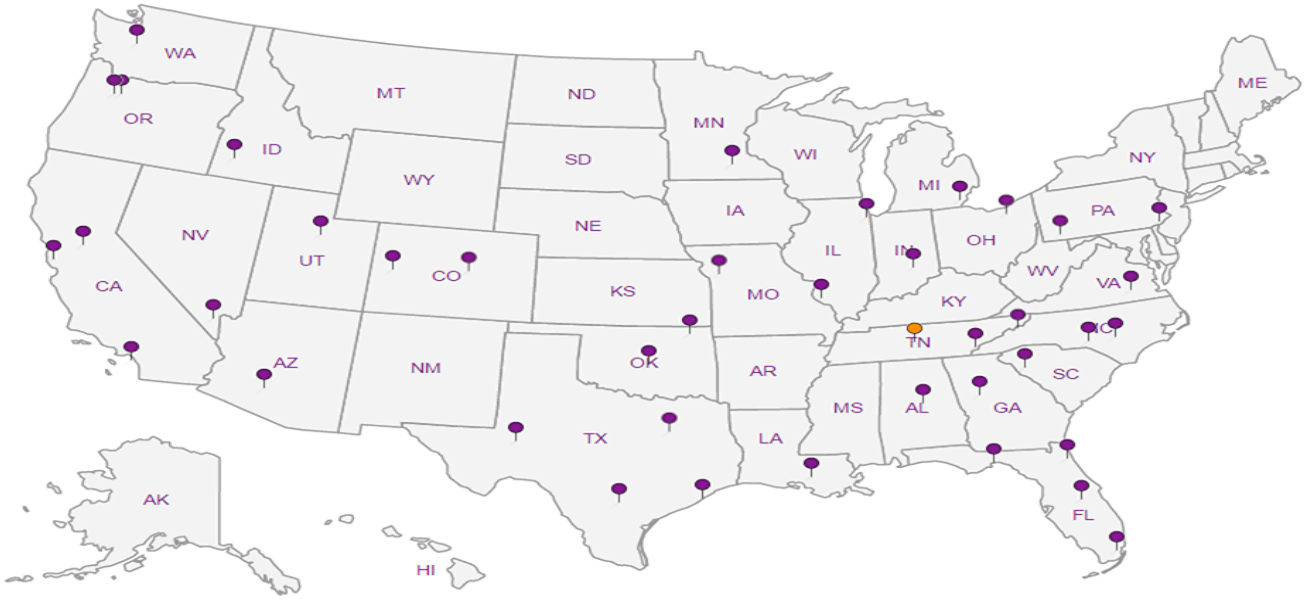
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



COOLER 2

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | TS 4ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | VOCs 8260 | | | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-212-65 | GRAB | SS | 65 | 9/8/17 | 1230 | 5 | X | X | X | | | | | | | | | | -01 |
| B-212-75 | | SS | 75 | | 1350 | 5 | X | X | X | | | | | | | | | | -02 |
| B-214-65 | | SS | 65 | | 1030 | ~~4~~ 5 | ~~X~~ | X | X | | | | | | | | | | -03 |
| B-214-75 | | SS | 75 | | 1110 | ~~4~~ 5 | ~~X~~ | X | X | | | | | | | | | | -04 |
| B-214-85 | | SS | 85 | | 1155 | ~~4~~ 5 | ~~X~~ | X | X | | | | | | | | | | -05 |
| B-908-100 | | SS | 100 | | 1230 | ~~4~~ 5 | ~~X~~ | X | X | | | | | | | | | | -06 |
| B-214-95 | | SS | 95 | | 1310 | ~~4~~ 5 | ~~X~~ | X | X | | | | | | | | | | -07 |
| B-214-105 | | SS | 105 | | 1400 | ~~4~~ 5 | ~~X~~ | X | X | | | | | | | | | | -08 |
| B-907-25 | | SS | 25 | | 0830 | 5 | X | X | X | | | | | | | | | | -09 |
| TRIPBLANK-090817 | NA | ~~SS~~ NA | NA | 9/10/17 | NA | ~~1~~ 2 | ~~X~~ | ~~X~~ | ~~X~~ | X | | | | | | | | | -10 |

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LAB SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L935266

Table # B184

Acctnum: PESENVSWA
Template: T126584
Prelogin: P615998
TSR: 110 - Brian Ford
PB: 8.31.17 CM

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier __ _____

Tracking # 747409270968

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: (Yes) / No HCL / MeoH TBR |
|---|---|---|---|---|
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 1.7 °C Bottles Received: 39 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 9/9/17 Time: 0845 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF (OK)

# MEMORANDUM

**TO:** Project File **DATE:** October 13, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** September 8, 2017 – Soil Samples

**LAB:** ESC Lab ID L935266

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Nine (9) soil samples and a trip blank were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 8, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology; and
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L935266. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L935266 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on September 8, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 1.7 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, 1,2-dichloroethane, trans-1,4-dichloro-2-butene, and 2-butanone (MEK) associated with analytical batch WG1019379 (analyzed on September 12, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, bromobenzene, chloroethane, chloromethane, trans-1,4-dichloro-2-butene, and n-hexane, 2-butanone (MEK), 1,2,4-trimethylbenzene, and 1,2,3-trimethylbenzene associated with analytical batch WG1020390 (analyzed on September 14, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for chloromethane, trans-1,4-dichloro-2-butene, and di-isopropyl ether associated with analytical batch WG1019379 (analyzed on September 18, 2017). These results are

qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for chloromethane, trans-1,4-dichloro-2-butene, and di-isopropyl associated with analytical batch WG1020390 (analyzed on September 18, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs).

*NWTPH-Gx Method:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analyte (gasoline) was detected in the method blank between the method detection limit (MDL) and the RDL with the following discussion:

- **Gasoline results for samples B-212-65 and B-907-25 were detected below the RDL and due to associated blank contamination are qualified as not detected (U).**

*Total Solids by SM 2540 G 2011:*
Laboratory method blank was included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was collected and submitted for VOC analysis. The target analytes were not detected in the trip blank at or above the RDL.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Two pairs of field duplicate (sample B-212-45 from SDG L935150/sample B-907-25 from SDG L935266 AND samples B-214-85/B-908-100 from SDG L935266) results are comparable for VOCs and/or gasoline and less than 30% RPD. Refer to the section on other laboratory control issues for additional discussion on sample B-907-25.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*NWTPH-Gx Method:*
Laboratory duplicate samples were not analyzed. Refer to LCS/LCSDs and MS/MSDs results for precision data on soils and waters.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on a non-client sample, and on two client samples B-212-75 and B-214-65. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils with the following exception:

- LCS/LCSD (Batch WG1019379) RPD result for acetone is above laboratory acceptance criteria (20%) and qualified by the laboratory (J3). No action was taken on this basis as MS/MSD percent recovery results are recovered wide but are within control limits.

- LCS/LCSD (Batch WG1019379) % recoveries for trans-1,4-dichloro-2-butene are low, below laboratory criteria, and qualified by the laboratory (J4). **All associated results are estimated and qualified (UJ or J).**

- LCS (Batch WG1019379) % recovery for 1,2-dichloroethane is low, below laboratory criteria, and qualified by the laboratory (J4). **All associated results are estimated and qualified (UJ or J).**

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPDs for the control analyte (gasoline) are within the laboratory control criteria for soils and waters.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on a non-client sample within one of the analytical batches. Refer to LCS/LCSD results for accuracy and precision water data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for soils with the following exceptions:

- MS/MSD (Batch WG1019379) recoveries for multiple compounds are low, below laboratory acceptance criteria, and qualified (J6) by the laboratory to indicate matrix interference. No action is taken since this spike was performed on a non-client sample within the analytical batch and LCS/LCSD results are generally acceptable. Refer to LCS/LCSD discussion for more information.

*NWTPH-Gx Method:*
MS/MSDs were analyzed by the NWTPH-Gx method on a non-client samples within the analytical batches. The MS/MSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for waters and soils.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following exception:

- Sample B-907-25 (Batch WG1020390) has an elevated reporting limit due to matrix interference the internal standards failed to recover in both undiluted vials. The sample was reanalyzed at a twenty-five fold dilution from the methanol vial. No action was taken in this case since this sample is a field duplicate and results are comparable. Refer to the field duplicate section for more information.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.2 | | 1 | 09/15/2017 09:48 | WG1020726 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.29 U | B J | 0.984 | 2.90 | 25 | 09/14/2017 16:13 | WG1020338 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.6* | | | *77.0-120* | | *09/14/2017 16:13* | WG1020338 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0116 | 0.0580 | 1 | 09/12/2017 21:19 | WG1019379 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Bromochloromethane | U | | 0.000453 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| Bromoform | U | | 0.000492 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Bromomethane | U | | 0.00156 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Carbon disulfide | 0.00107 J | J | 0.000257 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Chloroethane | U | | 0.00110 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| Chloroform | U | | 0.000266 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| Chloromethane | U | | 0.000435 | 0.00290 | 1 | 09/12/2017 21:19 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000398 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000828 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2-Dichloroethane | U UJ | J0 J4 | 0.000308 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000352 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000273 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000306 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000903 | 0.00290 | 1 | 09/12/2017 21:19 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |
| n-Hexane | 0.00322 J | J | 0.000337 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 2-Butanone (MEK) | U | UJ J0 | 0.00543 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Methylene Chloride | U | | 0.00116 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Naphthalene | U | | 0.00116 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Toluene | U | | 0.000504 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Trichloroethene | U | | 0.000324 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00580 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000860 | 0.00290 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Vinyl chloride | U | | 0.000338 | 0.00116 | 1 | 09/12/2017 21:19 | WG1019379 |
| Xylenes, Total | U | | 0.000810 | 0.00348 | 1 | 09/12/2017 21:19 | WG1019379 |
| *(S) Toluene-d8* | *96.5* | | | *80.0-120* | | *09/12/2017 21:19* | WG1019379 |
| *(S) Dibromofluoromethane* | *98.5* | | | *74.0-131* | | *09/12/2017 21:19* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *95.7* | | | *64.0-132* | | *09/12/2017 21:19* | WG1019379 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.0 | | 1 | 09/15/2017 09:48 | WG1020726 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 1.05 | 3.11 | 26.75 | 09/14/2017 16:35 | WG1020338 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.2* | | | *77.0-120* | | *09/14/2017 16:35* | WG1020338 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0116 | 0.0581 | 1 | 09/12/2017 21:41 | WG1019379 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Benzene | U | | 0.000314 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Bromochloromethane | U | | 0.000454 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| Bromoform | U | | 0.000493 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Bromomethane | U | | 0.00156 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| n-Butylbenzene | U | | 0.000300 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| sec-Butylbenzene | U | | 0.000234 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| tert-Butylbenzene | U | | 0.000240 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Carbon disulfide | 0.000919 J | J | 0.000257 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Chlorobenzene | U | | 0.000247 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Chlorodibromomethane | U | | 0.000434 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Chloroethane | U | | 0.00110 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| Chloroform | U | | 0.000266 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| Chloromethane | U | | 0.000436 | 0.00291 | 1 | 09/12/2017 21:41 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000350 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000399 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Dibromomethane | U | | 0.000444 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000278 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000263 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000829 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2-Dichloroethane | U UJ | J0 J4 | 0.000308 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000352 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000273 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000307 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000369 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000241 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000305 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000311 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000905 | 0.00291 | 1 | 09/12/2017 21:41 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000398 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |
| n-Hexane | 0.00125 J | J | 0.000337 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Isopropylbenzene | U | | 0.000283 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 2-Butanone (MEK) | U | UJ J0 | 0.00544 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Methylene Chloride | U | | 0.00116 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00219 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Methyl tert-butyl ether | U | | 0.000247 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Naphthalene | U | | 0.00116 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| n-Propylbenzene | U | | 0.000240 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000307 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Tetrachloroethene | U | | 0.000321 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Toluene | U | | 0.000505 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000356 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000451 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000333 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Trichloroethene | U | | 0.000324 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000444 | 0.00581 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000862 | 0.00291 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000334 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Vinyl acetate | U | | 0.00278 | 0.0116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Vinyl chloride | U | | 0.000338 | 0.00116 | 1 | 09/12/2017 21:41 | WG1019379 |
| Xylenes, Total | U | | 0.000812 | 0.00349 | 1 | 09/12/2017 21:41 | WG1019379 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/12/2017 21:41* | WG1019379 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/12/2017 21:41* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *98.6* | | | *64.0-132* | | *09/12/2017 21:41* | WG1019379 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 77.7 | | 1 | 09/14/2017 13:28 | WG1020385 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0129 | 0.0643 | 1 | 09/12/2017 22:03 | WG1019379 |
| Acrylonitrile | U | | 0.00230 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Benzene | U | | 0.000347 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Bromobenzene | U | | 0.000366 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Bromodichloromethane | U | | 0.000327 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Bromochloromethane | U | | 0.000502 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| Bromoform | U | | 0.000546 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Bromomethane | U | | 0.00172 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| n-Butylbenzene | U | | 0.000332 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| sec-Butylbenzene | U | | 0.000259 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| tert-Butylbenzene | U | | 0.000265 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Carbon disulfide | U | | 0.000284 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Carbon tetrachloride | U | | 0.000422 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Chlorobenzene | U | | 0.000273 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Chlorodibromomethane | U | | 0.000480 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Chloroethane | U | | 0.00122 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| Chloroform | U | | 0.000295 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| Chloromethane | U | | 0.000483 | 0.00322 | 1 | 09/12/2017 22:03 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000387 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000309 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00135 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000441 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Dibromomethane | U | | 0.000492 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000393 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000308 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000291 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000918 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000256 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2-Dichloroethane | U UJ | J0 J4 | 0.000341 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000390 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000302 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000340 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000461 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000408 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000266 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000337 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000344 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.00100 | 0.00322 | 1 | 09/12/2017 22:03 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000359 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Di-isopropyl ether | U | | 0.000319 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Ethylbenzene | U | | 0.000382 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000440 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 2-Hexanone | U | | 0.00176 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |
| n-Hexane | U | | 0.000373 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Iodomethane | U | | 0.00326 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Isopropylbenzene | U | | 0.000313 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000263 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00602 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Methylene Chloride | U | | 0.00129 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00242 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000273 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Naphthalene | U | | 0.00129 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| n-Propylbenzene | U | | 0.000265 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Styrene | U | | 0.000301 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000340 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000470 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000470 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Tetrachloroethene | U | | 0.000355 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Toluene | U | | 0.000559 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000394 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000499 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000368 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000356 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Trichloroethene | U | | 0.000359 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000492 | 0.00643 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000954 | 0.00322 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000272 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000369 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000342 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Vinyl acetate | U | | 0.00308 | 0.0129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Vinyl chloride | U | | 0.000375 | 0.00129 | 1 | 09/12/2017 22:03 | WG1019379 |
| Xylenes, Total | U | | 0.000898 | 0.00386 | 1 | 09/12/2017 22:03 | WG1019379 |
| *(S) Toluene-d8* | *97.0* | | | *80.0-120* | | *09/12/2017 22:03* | WG1019379 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/12/2017 22:03* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *98.4* | | | *64.0-132* | | *09/12/2017 22:03* | WG1019379 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.0 | | 1 | 09/14/2017 13:28 | WG1020385 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0121 J | J J3 | 0.0111 | 0.0555 | 1 | 09/18/2017 13:29 | WG1019379 |
| Acrylonitrile | U | | 0.00199 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Benzene | U | | 0.000300 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Bromobenzene | U | | 0.000316 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Bromodichloromethane | U | | 0.000282 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Bromochloromethane | U | | 0.000433 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| Bromoform | U | | 0.000471 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Bromomethane | U | | 0.00149 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| n-Butylbenzene | U | | 0.000287 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| tert-Butylbenzene | U | | 0.000229 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Carbon disulfide | 0.000650 J | J | 0.000246 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Carbon tetrachloride | U | | 0.000364 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Chlorobenzene | U | | 0.000236 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Chlorodibromomethane | U | | 0.000414 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Chloroethane | U | | 0.00105 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| Chloroform | U | | 0.000254 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| Chloromethane | U UJ | J0 | 0.000417 | 0.00278 | 1 | 09/18/2017 13:29 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000334 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000267 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000381 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Dibromomethane | U | | 0.000424 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000266 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000251 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000792 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000221 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2-Dichloroethane | U UJ | J4 | 0.000294 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000337 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000261 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000293 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000398 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000352 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000230 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000291 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000297 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000864 | 0.00278 | 1 | 09/18/2017 13:29 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000310 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Di-isopropyl ether | U UJ | J0 | 0.000276 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Ethylbenzene | U | | 0.000330 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000380 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 2-Hexanone | U | | 0.00152 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |
| n-Hexane | 0.000642 J | J | 0.000322 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Iodomethane | U | | 0.00281 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Isopropylbenzene | U | | 0.000270 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000227 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 2-Butanone (MEK) | U | | 0.00520 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Methylene Chloride | U | | 0.00111 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00209 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000236 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Naphthalene | U | | 0.00111 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| n-Propylbenzene | U | | 0.000229 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Styrene | U | | 0.000260 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000293 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000405 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000405 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Tetrachloroethene | U | | 0.000307 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Toluene | U | | 0.000482 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000340 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000431 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000318 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000308 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Trichloroethene | U | | 0.000310 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000424 | 0.00555 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000823 | 0.00278 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000234 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000319 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000296 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Vinyl acetate | U | | 0.00266 | 0.0111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Vinyl chloride | U | | 0.000323 | 0.00111 | 1 | 09/18/2017 13:29 | WG1019379 |
| Xylenes, Total | U | | 0.000775 | 0.00333 | 1 | 09/18/2017 13:29 | WG1019379 |
| *(S) Toluene-d8* | *98.7* | | | *80.0-120* | | *09/18/2017 13:29* | WG1019379 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/18/2017 13:29* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/18/2017 13:29* | WG1019379 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.2 | | 1 | 09/14/2017 13:28 | WG1020385 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0150 J | J J3 | 0.0120 | 0.0601 | 1 | 09/18/2017 13:49 | WG1019379 |
| Acrylonitrile | U | | 0.00215 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Benzene | U | | 0.000325 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Bromobenzene | U | | 0.000341 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Bromodichloromethane | U | | 0.000305 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Bromochloromethane | U | | 0.000469 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| Bromoform | U | | 0.000510 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Bromomethane | U | | 0.00161 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| n-Butylbenzene | U | | 0.000310 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| sec-Butylbenzene | U | | 0.000242 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| tert-Butylbenzene | U | | 0.000248 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Carbon disulfide | 0.00148 | | 0.000266 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Carbon tetrachloride | U | | 0.000394 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Chlorobenzene | U | | 0.000255 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Chlorodibromomethane | U | | 0.000448 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Chloroethane | U | | 0.00114 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| Chloroform | U | | 0.000275 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| Chloromethane | U UJ | J0 | 0.000451 | 0.00301 | 1 | 09/18/2017 13:49 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000362 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000288 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000412 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Dibromomethane | U | | 0.000459 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000287 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000272 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000857 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000239 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2-Dichloroethane | U J | J4 | 0.000319 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000364 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000282 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000317 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000430 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000381 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000249 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000315 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000321 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000935 | 0.00301 | 1 | 09/18/2017 13:49 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000335 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Di-isopropyl ether | U UJ | J0 | 0.000298 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Ethylbenzene | U | | 0.000357 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000411 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 2-Hexanone | U | | 0.00165 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |
| n-Hexane | 0.000620 J | J | 0.000349 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Iodomethane | U | | 0.00304 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Isopropylbenzene | U | | 0.000292 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000245 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 2-Butanone (MEK) | U | | 0.00563 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Methylene Chloride | U | | 0.00120 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00226 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000255 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Naphthalene | U | | 0.00120 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| n-Propylbenzene | U | | 0.000248 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Styrene | U | | 0.000281 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000317 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000439 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000439 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Tetrachloroethene | U | | 0.000332 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Toluene | U | | 0.000522 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000368 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000466 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000344 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000333 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Trichloroethene | U | | 0.000335 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000459 | 0.00601 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000891 | 0.00301 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000254 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000345 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000320 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Vinyl acetate | U | | 0.00287 | 0.0120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Vinyl chloride | U | | 0.000350 | 0.00120 | 1 | 09/18/2017 13:49 | WG1019379 |
| Xylenes, Total | U | | 0.000839 | 0.00361 | 1 | 09/18/2017 13:49 | WG1019379 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/18/2017 13:49* | WG1019379 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/18/2017 13:49* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/18/2017 13:49* | WG1019379 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.5 | | 1 | 09/14/2017 13:28 | WG1020385 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0230 J | J J3 | 0.0112 | 0.0559 | 1 | 09/18/2017 14:08 | WG1019379 |
| Acrylonitrile | U | | 0.00200 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Benzene | U | | 0.000302 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Bromobenzene | U | | 0.000317 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Bromodichloromethane | U | | 0.000284 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Bromochloromethane | U | | 0.000436 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| Bromoform | U | | 0.000474 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Bromomethane | U | | 0.00150 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| n-Butylbenzene | U | | 0.000288 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| sec-Butylbenzene | U | | 0.000225 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| tert-Butylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Carbon disulfide | 0.00203 | | 0.000247 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Carbon tetrachloride | U | | 0.000367 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Chlorobenzene | U | | 0.000237 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Chlorodibromomethane | U | | 0.000417 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Chloroethane | U | | 0.00106 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| Chloroform | U | | 0.000256 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| Chloromethane | U UJ | J0 | 0.000419 | 0.00279 | 1 | 09/18/2017 14:08 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000336 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000268 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000383 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Dibromomethane | U | | 0.000427 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000341 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000267 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000253 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000797 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000222 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2-Dichloroethane | U UJ | J4 | 0.000296 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000339 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000263 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000295 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000400 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000354 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000231 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000293 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000298 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000870 | 0.00279 | 1 | 09/18/2017 14:08 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000312 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Di-isopropyl ether | U UJ | J0 | 0.000277 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Ethylbenzene | U | | 0.000332 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000382 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |
| n-Hexane | 0.000668 J | J | 0.000324 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Isopropylbenzene | U | | 0.000272 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000228 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 2-Butanone (MEK) | U | | 0.00523 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Methylene Chloride | U | | 0.00112 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00210 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000237 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Naphthalene | U | | 0.00112 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| n-Propylbenzene | U | | 0.000230 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Styrene | U | | 0.000262 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000295 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000408 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000408 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Tetrachloroethene | U | | 0.000309 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Toluene | U | | 0.000485 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000434 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000320 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000310 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Trichloroethene | U | | 0.000312 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000427 | 0.00559 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000828 | 0.00279 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000321 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000297 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Vinyl acetate | U | | 0.00267 | 0.0112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Vinyl chloride | U | | 0.000325 | 0.00112 | 1 | 09/18/2017 14:08 | WG1019379 |
| Xylenes, Total | U | | 0.000780 | 0.00335 | 1 | 09/18/2017 14:08 | WG1019379 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/18/2017 14:08* | WG1019379 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/18/2017 14:08* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/18/2017 14:08* | WG1019379 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.1 | | 1 | 09/14/2017 13:28 | WG1020385 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0125 J | J J3 | 0.0110 | 0.0549 | 1 | 09/18/2017 14:28 | WG1019379 |
| Acrylonitrile | U | | 0.00196 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Benzene | U | | 0.000296 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Bromobenzene | U | | 0.000312 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Bromodichloromethane | U | | 0.000279 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Bromochloromethane | U | | 0.000428 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| Bromoform | U | | 0.000465 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Bromomethane | U | | 0.00147 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| n-Butylbenzene | U | | 0.000283 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| tert-Butylbenzene | U | | 0.000226 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Carbon disulfide | 0.00135 | | 0.000243 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Carbon tetrachloride | U | | 0.000360 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Chlorodibromomethane | U | | 0.000409 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Chloroethane | U | | 0.00104 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| Chloroform | U | | 0.000251 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| Chloromethane | U UJ | J0 | 0.000412 | 0.00274 | 1 | 09/18/2017 14:28 | WG1019379 |
| 2-Chlorotoluene | U | | 0.000330 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 4-Chlorotoluene | U | | 0.000263 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2-Dibromoethane | U | | 0.000377 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Dibromomethane | U | | 0.000419 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2-Dichlorobenzene | U | | 0.000335 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,3-Dichlorobenzene | U | | 0.000262 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,4-Dichlorobenzene | U | | 0.000248 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Dichlorodifluoromethane | U | | 0.000783 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1-Dichloroethane | U | | 0.000218 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2-Dichloroethane | U UJ | J4 | 0.000291 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1-Dichloroethene | U | | 0.000333 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| cis-1,2-Dichloroethene | U | | 0.000258 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| trans-1,2-Dichloroethene | U | | 0.000290 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2-Dichloropropane | U | | 0.000393 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1-Dichloropropene | U | | 0.000348 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,3-Dichloropropane | U | | 0.000227 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| cis-1,3-Dichloropropene | U | | 0.000288 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| trans-1,3-Dichloropropene | U | | 0.000293 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000854 | 0.00274 | 1 | 09/18/2017 14:28 | WG1019379 |
| 2,2-Dichloropropane | U | | 0.000306 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Di-isopropyl ether | U UJ | J0 | 0.000272 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Ethylbenzene | U | | 0.000326 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Hexachloro-1,3-butadiene | U | | 0.000375 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 2-Hexanone | U | | 0.00150 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |
| n-Hexane | 0.00343 J | J | 0.000318 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Iodomethane | U | | 0.00278 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Isopropylbenzene | U | | 0.000267 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| p-Isopropyltoluene | U | | 0.000224 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 2-Butanone (MEK) | U | | 0.00514 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Methylene Chloride | U | | 0.00110 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00206 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Naphthalene | U | | 0.00110 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| n-Propylbenzene | U | | 0.000226 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Styrene | U | | 0.000257 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000290 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000401 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000401 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Tetrachloroethene | U | | 0.000303 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Toluene | U | | 0.000476 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2,3-Trichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2,4-Trichlorobenzene | U | | 0.000426 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1,1-Trichloroethane | U | | 0.000314 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,1,2-Trichloroethane | U | | 0.000304 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Trichloroethene | U | | 0.000306 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Trichlorofluoromethane | U | | 0.000419 | 0.00549 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2,3-Trichloropropane | U | | 0.000813 | 0.00274 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,2,3-Trimethylbenzene | U | | 0.000315 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| 1,3,5-Trimethylbenzene | U | | 0.000292 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Vinyl acetate | U | | 0.00262 | 0.0110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Vinyl chloride | U | | 0.000319 | 0.00110 | 1 | 09/18/2017 14:28 | WG1019379 |
| Xylenes, Total | U | | 0.000766 | 0.00329 | 1 | 09/18/2017 14:28 | WG1019379 |
| *(S) Toluene-d8* | *97.2* | | | *80.0-120* | | *09/18/2017 14:28* | WG1019379 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/18/2017 14:28* | WG1019379 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/18/2017 14:28* | WG1019379 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 79.0 | | 1 | 09/14/2017 13:28 | WG1020385 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U UJ | J0 | 0.0127 | 0.0633 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Acrylonitrile | U | | 0.00226 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Benzene | U | | 0.000342 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Bromobenzene | U UJ | J0 | 0.000359 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Bromodichloromethane | U | | 0.000321 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Bromochloromethane | U | | 0.000493 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Bromoform | U | | 0.000537 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Bromomethane | U | | 0.00170 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 | |
| n-Butylbenzene | U | | 0.000326 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| sec-Butylbenzene | U | | 0.000254 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| tert-Butylbenzene | U | | 0.000261 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Carbon disulfide | U | | 0.000280 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Carbon tetrachloride | U | | 0.000415 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Chlorobenzene | U | | 0.000268 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Chlorodibromomethane | U | | 0.000472 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Chloroethane | U UJ | J0 | 0.00120 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Chloroform | U | | 0.000290 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Chloromethane | U UJ | J0 | 0.000475 | 0.00316 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 2-Chlorotoluene | U | | 0.000381 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 4-Chlorotoluene | U | | 0.000304 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00133 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 1,2-Dibromoethane | U | | 0.000434 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Dibromomethane | U | | 0.000483 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 1,2-Dichlorobenzene | U | | 0.000386 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 1,3-Dichlorobenzene | U | | 0.000302 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 1,4-Dichlorobenzene | U | | 0.000286 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Dichlorodifluoromethane | U | | 0.000902 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 1,1-Dichloroethane | U | | 0.000252 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 1,2-Dichloroethane | U | | 0.000335 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 1,1-Dichloroethene | U | | 0.000383 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| cis-1,2-Dichloroethene | U | | 0.000297 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| trans-1,2-Dichloroethene | U | | 0.000334 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 1,2-Dichloropropane | U | | 0.000453 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 1,1-Dichloropropene | U | | 0.000401 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 1,3-Dichloropropane | U | | 0.000262 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| cis-1,3-Dichloropropene | U | | 0.000332 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| trans-1,3-Dichloropropene | U | | 0.000338 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000984 | 0.00316 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 2,2-Dichloropropane | U | | 0.000353 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Di-isopropyl ether | U | | 0.000314 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Ethylbenzene | U | | 0.000376 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Hexachloro-1,3-butadiene | U | | 0.000433 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 2-Hexanone | U | | 0.00173 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| n-Hexane | 0.000426 J | J J0 | 0.000367 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Iodomethane | U | | 0.00320 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Isopropylbenzene | U | | 0.000307 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| p-Isopropyltoluene | U | | 0.000258 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 2-Butanone (MEK) | U UJ | J0 | 0.00592 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 | |
| Methylene Chloride | U | | 0.00127 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 | |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00238 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 | JC 10/16/17 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000268 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Naphthalene | U | | 0.00127 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 |
| n-Propylbenzene | U | | 0.000261 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Styrene | U | | 0.000296 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000334 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000462 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000462 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Tetrachloroethene | U | | 0.000349 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Toluene | U | | 0.000549 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000387 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000491 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000362 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000351 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Trichloroethene | U | | 0.000353 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000483 | 0.00633 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000938 | 0.00316 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2,4-Trimethylbenzene | U UJ | J0 | 0.000267 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,2,3-Trimethylbenzene | U UJ | J0 | 0.000363 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000337 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Vinyl acetate | U | | 0.00302 | 0.0127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Vinyl chloride | U | | 0.000368 | 0.00127 | 1 | 09/14/2017 15:13 | WG1020390 |
| Xylenes, Total | U | | 0.000883 | 0.00380 | 1 | 09/14/2017 15:13 | WG1020390 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/14/2017 15:13* | WG1020390 |
| *(S) Dibromofluoromethane* | *89.9* | | | *74.0-131* | | *09/14/2017 15:13* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *89.3* | | | *64.0-132* | | *09/14/2017 15:13* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| | % | | | | |
| Total Solids | 83.7 | | 1 | 09/15/2017 11:14 | WG1020730 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Gasoline Range Organics-NWTPH | 1.16 U | B J | 1.01 | 2.99 | 25 | 09/14/2017 16:57 | WG1020338 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *95.4* | | | *77.0-120* | | *09/14/2017 16:57* | WG1020338 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | | |
| Acetone | U | | 0.299 | 1.49 | 25 | 09/18/2017 15:41 | WG1020390 |
| Acrylonitrile | U | | 0.0536 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Benzene | U | | 0.00807 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Bromobenzene | U | | 0.00849 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Bromodichloromethane | U | | 0.00759 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Bromochloromethane | U | | 0.0117 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| Bromoform | U | | 0.0127 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Bromomethane | U | | 0.0400 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| n-Butylbenzene | U | | 0.00771 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| sec-Butylbenzene | U | | 0.00600 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| tert-Butylbenzene | U | | 0.00616 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Carbon disulfide | U | | 0.00660 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Carbon tetrachloride | U | | 0.00980 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Chlorobenzene | U | | 0.00634 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Chlorodibromomethane | U | | 0.0111 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Chloroethane | U | | 0.0282 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| Chloroform | U | | 0.00684 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| Chloromethane | U UJ | J0 | 0.0112 | 0.0747 | 25 | 09/18/2017 15:41 | WG1020390 |
| 2-Chlorotoluene | U | | 0.00899 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 4-Chlorotoluene | U | | 0.00717 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0313 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.0103 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Dibromomethane | U | | 0.0114 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.00911 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.00715 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.00675 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.0213 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.00595 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.00791 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.00906 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.00703 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.00789 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.0107 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.00947 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.00619 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.00783 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.00799 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.0232 | 0.0747 | 25 | 09/18/2017 15:41 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.00834 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Di-isopropyl ether | U UJ | J0 | 0.00741 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Ethylbenzene | U | | 0.00887 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.0102 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 2-Hexanone | U | | 0.0409 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |
| n-Hexane | U | | 0.00867 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.0755 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Isopropylbenzene | U | | 0.00727 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| p-Isopropyltoluene | U | | 0.00610 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 2-Butanone (MEK) | U | | 0.140 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Methylene Chloride | U | | 0.0299 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0562 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Methyl tert-butyl ether | U | | 0.00634 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Naphthalene | U | | 0.0299 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| n-Propylbenzene | U | | 0.00616 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Styrene | U | | 0.00699 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00789 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0109 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0109 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Tetrachloroethene | U | | 0.00825 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Toluene | U | | 0.0129 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.00914 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.0116 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.00855 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.00827 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Trichloroethene | U | | 0.00834 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Trichlorofluoromethane | U | | 0.0114 | 0.149 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.0221 | 0.0747 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | | 0.00631 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | | 0.00858 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.00795 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Vinyl acetate | U | | 0.0715 | 0.299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Vinyl chloride | U | | 0.00870 | 0.0299 | 25 | 09/18/2017 15:41 | WG1020390 |
| Xylenes, Total | U | | 0.0208 | 0.0897 | 25 | 09/18/2017 15:41 | WG1020390 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/18/2017 15:41* | WG1020390 |
| *(S) Dibromofluoromethane* | *95.3* | | | *74.0-131* | | *09/18/2017 15:41* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/18/2017 15:41* | WG1020390 |

**Sample Narrative:**

L935266-09 WG1020390: Elevated RL. IS failed in both 1x analysis due to matrix interference. Reported from MEOH vial.

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | | |
| Acetone | U | | 1.05 | 25.0 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 | |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/12/2017 13:44 | WG1019184 | |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 | |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 | |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | JC 10/16/17 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 | |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Trichloroethene | 0.690 | | 0.153 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/12/2017 13:44 | WG1019184 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/12/2017 13:44 | WG1019184 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/12/2017 13:44 | WG1019184 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/12/2017 13:44* | WG1019184 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *09/12/2017 13:44* | WG1019184 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *09/12/2017 13:44* | WG1019184 |

JC 10/16/17

# ANALYTICAL REPORT

September 20, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L936064 |
| Samples Received: | 09/13/2017 |
| Project Number: | 141-001-02-602 |
| Description: | American Linen Project |
| Site: | 1413-001-02-602 |
| Report To: | Bill Haldeman |
| | 1215 Fourth Ave., Suite 1350 |
| | Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-212-85 L936064-01 Solid

Collected by: Shannon McKernan | Collected date/time: 09/11/17 11:00 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021488 | 1 | 09/19/17 07:24 | 09/19/17 07:43 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1020572 | 1 | 09/11/17 11:00 | 09/15/17 00:57 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020560 | 1 | 09/11/17 11:00 | 09/14/17 21:58 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020560 | 25 | 09/11/17 11:00 | 09/15/17 14:05 | ACG |

## B-214-115 L936064-02 Solid

Collected by: Shannon McKernan | Collected date/time: 09/11/17 11:10 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021103 | 1 | 09/16/17 10:22 | 09/16/17 10:30 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020560 | 1 | 09/11/17 11:10 | 09/14/17 22:15 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020560 | 1 | 09/11/17 11:10 | 09/15/17 14:25 | ACG |

## B-214-120 L936064-03 Solid

Collected by: Shannon McKernan | Collected date/time: 09/11/17 11:20 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021103 | 1 | 09/16/17 10:22 | 09/16/17 10:30 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/11/17 11:20 | 09/18/17 16:01 | JHH |

## B-212-95 L936064-04 Solid

Collected by: Shannon McKernan | Collected date/time: 09/11/17 12:00 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021488 | 1 | 09/19/17 07:24 | 09/19/17 07:43 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1020572 | 1 | 09/11/17 12:00 | 09/15/17 01:19 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1.05 | 09/11/17 12:00 | 09/14/17 16:15 | ACG |

## B-212-100 L936064-05 Solid

Collected by: Shannon McKernan | Collected date/time: 09/11/17 12:40 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021488 | 1 | 09/19/17 07:24 | 09/19/17 07:43 | JD |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1020572 | 1 | 09/11/17 12:40 | 09/15/17 01:41 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/11/17 12:40 | 09/14/17 16:36 | ACG |

## MW-138-15 L936064-06 Solid

Collected by: Shannon McKernan | Collected date/time: 09/12/17 10:15 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021488 | 1 | 09/19/17 07:24 | 09/19/17 07:43 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/12/17 10:15 | 09/14/17 16:56 | ACG |

## B-215-15 L936064-07 Solid

Collected by: Shannon McKernan | Collected date/time: 09/12/17 10:30 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021488 | 1 | 09/19/17 07:24 | 09/19/17 07:43 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/12/17 10:30 | 09/14/17 17:17 | ACG |

## MW-138-25 L936064-08 Solid

Collected by: Shannon McKernan | Collected date/time: 09/12/17 11:15 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021103 | 1 | 09/16/17 10:22 | 09/16/17 10:30 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/12/17 11:15 | 09/14/17 17:38 | ACG |

## B-215-25 L936064-09 Solid

Collected by: Shannon McKernan | Collected date/time: 09/12/17 11:25 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021488 | 1 | 09/19/17 07:24 | 09/19/17 07:43 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/12/17 11:25 | 09/14/17 17:58 | ACG |

## B-215-35 L936064-10 Solid

Collected by: Shannon McKernan | Collected date/time: 09/12/17 11:40 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021488 | 1 | 09/19/17 07:24 | 09/19/17 07:43 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/12/17 11:40 | 09/18/17 16:20 | JHH |

## MW-138-35 L936064-11 Solid

Collected by: Shannon McKernan | Collected date/time: 09/12/17 11:40 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021488 | 1 | 09/19/17 07:24 | 09/19/17 07:43 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/12/17 11:40 | 09/14/17 18:40 | ACG |

## B-215-45 L936064-12 Solid

Collected by: Shannon McKernan | Collected date/time: 09/12/17 12:05 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021488 | 1 | 09/19/17 07:24 | 09/19/17 07:43 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/12/17 12:05 | 09/14/17 19:00 | ACG |

## B-215-55 L936064-13 Solid

Collected by: Shannon McKernan | Collected date/time: 09/12/17 12:50 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021489 | 1 | 09/19/17 08:43 | 09/19/17 09:14 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/12/17 12:50 | 09/14/17 19:21 | ACG |

## MW-138-45 L936064-14 Solid

Collected by: Shannon McKernan | Collected date/time: 09/12/17 12:55 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021489 | 1 | 09/19/17 08:43 | 09/19/17 09:14 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/12/17 12:55 | 09/14/17 19:41 | ACG |

## MW-138-56 L936064-15 Solid

Collected by: Shannon McKernan | Collected date/time: 09/12/17 13:35 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021489 | 1 | 09/19/17 08:43 | 09/19/17 09:14 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/12/17 13:35 | 09/14/17 20:02 | ACG |

## B-215-65 L936064-16 Solid

Collected by: Shannon McKernan | Collected date/time: 09/12/17 13:50 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021489 | 1 | 09/19/17 08:43 | 09/19/17 09:14 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 25 | 09/12/17 13:50 | 09/14/17 20:43 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 250 | 09/12/17 13:50 | 09/18/17 16:40 | JHH |

## B-215-75 L936064-17 Solid

Collected by: Shannon McKernan | Collected date/time: 09/12/17 14:00 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021489 | 1 | 09/19/17 08:43 | 09/19/17 09:14 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020390 | 1 | 09/12/17 14:00 | 09/14/17 20:23 | ACG |

## TRIP BLANK-091217 L936064-18 GW

Collected by: Shannon McKernan | Collected date/time: 09/12/17 00:00 | Received date/time: 09/13/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020322 | 1 | 09/14/17 12:47 | 09/14/17 12:47 | BMB |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.1 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0385 | 0.113 | 1 | 09/15/2017 00:57 | WG1020572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *90.9* | | | *77.0-120* | | *09/15/2017 00:57* | WG1020572 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0113 | 0.0567 | 1 | 09/14/2017 21:58 | WG1020560 |
| Acrylonitrile | U | | 0.00203 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Benzene | U | | 0.000306 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Bromobenzene | U | | 0.000322 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Bromodichloromethane | U | | 0.000288 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Bromochloromethane | U | | 0.000443 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| Bromoform | U | J0 | 0.000481 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Bromomethane | U | | 0.00152 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| n-Butylbenzene | U | | 0.000293 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| sec-Butylbenzene | U | | 0.000228 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| tert-Butylbenzene | U | | 0.000234 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Carbon disulfide | 0.000454 | J | 0.000251 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Carbon tetrachloride | U | | 0.000372 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Chlorobenzene | U | | 0.000241 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Chlorodibromomethane | U | | 0.000423 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Chloroethane | U | | 0.00107 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| Chloroform | U | | 0.000260 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| Chloromethane | U | | 0.000425 | 0.00284 | 1 | 09/14/2017 21:58 | WG1020560 |
| 2-Chlorotoluene | U | | 0.000342 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 4-Chlorotoluene | U | | 0.000272 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2-Dibromoethane | U | | 0.000389 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Dibromomethane | U | | 0.000433 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2-Dichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,3-Dichlorobenzene | U | | 0.000271 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Dichlorodifluoromethane | U | | 0.000809 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,1-Dichloroethane | U | | 0.000226 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2-Dichloroethane | U | | 0.000301 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,1-Dichloroethene | U | | 0.000344 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| cis-1,2-Dichloroethene | U | | 0.000267 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| trans-1,2-Dichloroethene | U | | 0.000300 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2-Dichloropropane | U | | 0.000406 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,1-Dichloropropene | U | | 0.000360 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,3-Dichloropropane | U | | 0.000235 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| cis-1,3-Dichloropropene | U | | 0.000297 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| trans-1,3-Dichloropropene | U | | 0.000303 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| trans-1,4-Dichloro-2-butene | U | | 0.000883 | 0.00284 | 1 | 09/14/2017 21:58 | WG1020560 |
| 2,2-Dichloropropane | U | | 0.000317 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Di-isopropyl ether | U | | 0.000281 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Ethylbenzene | U | | 0.000337 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Hexachloro-1,3-butadiene | U | | 0.00970 | 0.0284 | 25 | 09/15/2017 14:05 | WG1020560 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 |
| n-Hexane | U | | 0.000329 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00287 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Isopropylbenzene | U | | 0.000276 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| p-Isopropyltoluene | U | | 0.000231 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 2-Butanone (MEK) | U | J0 | 0.00531 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Methylene Chloride | U | | 0.00113 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00213 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Methyl tert-butyl ether | U | | 0.000241 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Naphthalene | U | | 0.00113 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| n-Propylbenzene | U | | 0.000234 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Styrene | U | | 0.000266 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000300 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000414 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000414 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Tetrachloroethene | U | | 0.000313 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Toluene | U | | 0.000492 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2,3-Trichlorobenzene | U | | 0.000347 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2,4-Trichlorobenzene | U | | 0.000440 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,1,1-Trichloroethane | U | | 0.000325 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,1,2-Trichloroethane | U | | 0.000314 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Trichloroethene | U | | 0.000317 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Trichlorofluoromethane | U | | 0.000433 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2,3-Trichloropropane | U | | 0.000841 | 0.00284 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2,4-Trimethylbenzene | U | | 0.000239 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2,3-Trimethylbenzene | U | | 0.000326 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,3,5-Trimethylbenzene | U | | 0.000302 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Vinyl acetate | U | | 0.00271 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Vinyl chloride | U | | 0.000330 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Xylenes, Total | U | | 0.000792 | 0.00340 | 1 | 09/14/2017 21:58 | WG1020560 |
| *(S) Toluene-d8* | *94.3* | | | *80.0-120* | | *09/14/2017 21:58* | WG1020560 |
| *(S) Toluene-d8* | *94.2* | | | *80.0-120* | | *09/15/2017 14:05* | WG1020560 |
| *(S) Dibromofluoromethane* | *94.7* | | | *74.0-131* | | *09/15/2017 14:05* | WG1020560 |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* | | *09/14/2017 21:58* | WG1020560 |
| *(S) 4-Bromofluorobenzene* | *98.0* | | | *64.0-132* | | *09/14/2017 21:58* | WG1020560 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/15/2017 14:05* | WG1020560 |

Sample Narrative:

L936064-01 WG1020560: Elevated RL. Reported from MEOH vial. Bisulfates used in previous runs.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.0 | | 1 | 09/16/2017 10:30 | WG1021103 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0122 | 0.0610 | 1 | 09/14/2017 22:15 | WG1020560 |
| Acrylonitrile | U | | 0.00218 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Benzene | U | | 0.000329 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Bromobenzene | U | | 0.000346 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Bromodichloromethane | U | | 0.000310 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Bromochloromethane | U | | 0.000476 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| Bromoform | U | J0 | 0.000517 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Bromomethane | U | | 0.00163 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| n-Butylbenzene | U | | 0.000315 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| sec-Butylbenzene | U | | 0.000245 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| tert-Butylbenzene | U | | 0.000251 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Carbon disulfide | U | | 0.000270 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Carbon tetrachloride | U | | 0.000400 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Chlorobenzene | U | | 0.000259 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Chlorodibromomethane | U | | 0.000455 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Chloroethane | U | | 0.00115 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| Chloroform | U | | 0.000279 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| Chloromethane | U | | 0.000457 | 0.00305 | 1 | 09/14/2017 22:15 | WG1020560 |
| 2-Chlorotoluene | U | | 0.000367 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 4-Chlorotoluene | U | | 0.000293 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00128 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2-Dibromoethane | U | | 0.000418 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Dibromomethane | U | | 0.000466 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2-Dichlorobenzene | U | | 0.000372 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,3-Dichlorobenzene | U | | 0.000292 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,4-Dichlorobenzene | U | | 0.000276 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Dichlorodifluoromethane | U | | 0.000870 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1-Dichloroethane | U | | 0.000243 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2-Dichloroethane | U | | 0.000323 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1-Dichloroethene | U | | 0.000370 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| cis-1,2-Dichloroethene | U | | 0.000287 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| trans-1,2-Dichloroethene | U | | 0.000322 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2-Dichloropropane | U | | 0.000437 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1-Dichloropropene | U | | 0.000387 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,3-Dichloropropane | U | | 0.000252 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| cis-1,3-Dichloropropene | U | | 0.000320 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| trans-1,3-Dichloropropene | U | | 0.000326 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| trans-1,4-Dichloro-2-butene | U | | 0.000949 | 0.00305 | 1 | 09/14/2017 22:15 | WG1020560 |
| 2,2-Dichloropropane | U | | 0.000340 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Di-isopropyl ether | U | | 0.000302 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Ethylbenzene | U | | 0.000362 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Hexachloro-1,3-butadiene | U | | 0.000417 | 0.00122 | 1 | 09/15/2017 14:25 | WG1020560 |
| 2-Hexanone | U | | 0.00167 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |
| n-Hexane | U | | 0.000354 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Iodomethane | U | | 0.00309 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Isopropylbenzene | U | | 0.000296 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| p-Isopropyltoluene | U | | 0.000249 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 2-Butanone (MEK) | U | J0 | 0.00571 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Methylene Chloride | U | | 0.00122 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00229 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000259 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Naphthalene | U | | 0.00122 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| n-Propylbenzene | U | | 0.000251 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Styrene | U | | 0.000285 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000322 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000445 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000445 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Tetrachloroethene | U | | 0.000337 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Toluene | U | | 0.000529 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2,3-Trichlorobenzene | U | | 0.000373 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2,4-Trichlorobenzene | U | | 0.000473 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1,1-Trichloroethane | U | | 0.000349 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1,2-Trichloroethane | U | | 0.000338 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Trichloroethene | U | | 0.000340 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Trichlorofluoromethane | U | | 0.000466 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2,3-Trichloropropane | U | | 0.000904 | 0.00305 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2,4-Trimethylbenzene | U | | 0.000257 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2,3-Trimethylbenzene | U | | 0.000350 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,3,5-Trimethylbenzene | U | | 0.000324 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Vinyl acetate | U | | 0.00292 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Vinyl chloride | U | | 0.000355 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Xylenes, Total | U | | 0.000851 | 0.00366 | 1 | 09/14/2017 22:15 | WG1020560 |
| *(S) Toluene-d8* | *95.3* | | | *80.0-120* | | *09/14/2017 22:15* | WG1020560 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/15/2017 14:25* | WG1020560 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/14/2017 22:15* | WG1020560 |
| *(S) Dibromofluoromethane* | *92.5* | | | *74.0-131* | | *09/15/2017 14:25* | WG1020560 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/15/2017 14:25* | WG1020560 |
| *(S) 4-Bromofluorobenzene* | *96.5* | | | *64.0-132* | | *09/14/2017 22:15* | WG1020560 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.7 | | 1 | 09/16/2017 10:30 | WG1021103 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0118 | 0.0590 | 1 | 09/18/2017 16:01 | WG1020390 |
| Acrylonitrile | U | | 0.00211 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Benzene | U | | 0.000319 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Bromobenzene | U | | 0.000335 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Bromodichloromethane | U | | 0.000300 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Bromochloromethane | U | | 0.000461 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| Bromoform | U | | 0.000501 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Bromomethane | U | | 0.00158 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| n-Butylbenzene | U | | 0.000305 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| sec-Butylbenzene | U | | 0.000237 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| tert-Butylbenzene | U | | 0.000243 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Carbon disulfide | U | | 0.000261 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Carbon tetrachloride | U | | 0.000387 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Chlorobenzene | U | | 0.000250 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Chlorodibromomethane | U | | 0.000440 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Chloroethane | U | | 0.00112 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| Chloroform | U | | 0.000270 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| Chloromethane | U | J0 | 0.000443 | 0.00295 | 1 | 09/18/2017 16:01 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000355 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000283 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000405 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Dibromomethane | U | | 0.000451 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000360 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000282 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000267 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000842 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000235 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000313 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000358 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000278 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000312 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000423 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000374 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000244 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000309 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000315 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000919 | 0.00295 | 1 | 09/18/2017 16:01 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000329 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Di-isopropyl ether | U | J0 | 0.000293 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Ethylbenzene | U | | 0.000351 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000404 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 2-Hexanone | U | | 0.00162 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |
| n-Hexane | U | | 0.000342 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Iodomethane | U | | 0.00299 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Isopropylbenzene | U | | 0.000287 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000241 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 2-Butanone (MEK) | U | | 0.00553 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Methylene Chloride | U | | 0.00118 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00222 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000250 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Naphthalene | U | | 0.00118 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Styrene | U | | 0.000276 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000312 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000431 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000431 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Tetrachloroethene | U | | 0.000326 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Toluene | U | | 0.000513 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000361 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000458 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000338 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000327 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Trichloroethene | U | | 0.000329 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000451 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000875 | 0.00295 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | | 0.000339 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000314 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Vinyl chloride | U | | 0.000344 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Xylenes, Total | U | | 0.000824 | 0.00354 | 1 | 09/18/2017 16:01 | WG1020390 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/18/2017 16:01* | WG1020390 |
| *(S) Dibromofluoromethane* | *99.9* | | | *74.0-131* | | *09/18/2017 16:01* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *99.0* | | | *64.0-132* | | *09/18/2017 16:01* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.3 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0422 | 0.125 | 1 | 09/15/2017 01:19 | WG1020572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.0* | | | *77.0-120* | | *09/15/2017 01:19* | WG1020572 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0131 | 0.0654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Acrylonitrile | U | | 0.00234 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Benzene | U | | 0.000354 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Bromobenzene | U | J0 | 0.000371 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Bromodichloromethane | U | | 0.000333 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Bromochloromethane | U | | 0.000511 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Bromoform | U | | 0.000554 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Bromomethane | U | | 0.00176 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| n-Butylbenzene | U | | 0.000337 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| sec-Butylbenzene | U | | 0.000263 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| tert-Butylbenzene | U | | 0.000269 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Carbon disulfide | U | | 0.000289 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Carbon tetrachloride | U | | 0.000428 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Chlorobenzene | U | | 0.000278 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Chlorodibromomethane | U | | 0.000488 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Chloroethane | U | J0 | 0.00124 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Chloroform | U | | 0.000299 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Chloromethane | U | J0 | 0.000491 | 0.00327 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000394 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000314 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00137 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000448 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Dibromomethane | U | | 0.000499 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000399 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000313 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000295 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000933 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000260 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000346 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000396 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000308 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000345 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000468 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000415 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000270 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000342 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000349 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.00102 | 0.00327 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000365 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Di-isopropyl ether | U | | 0.000324 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Ethylbenzene | U | | 0.000389 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000447 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 2-Hexanone | U | | 0.00179 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| n-Hexane | U | J0 | 0.000379 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00331 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Isopropylbenzene | U | | 0.000318 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000267 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.00611 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Methylene Chloride | U | | 0.00131 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00245 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Methyl tert-butyl ether | U | | 0.000278 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Naphthalene | U | | 0.00131 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| n-Propylbenzene | U | | 0.000269 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Styrene | U | | 0.000306 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000345 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000477 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000477 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Tetrachloroethene | U | | 0.000361 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Toluene | U | | 0.000568 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000400 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000507 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000374 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000362 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Trichloroethene | U | | 0.000365 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000499 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000969 | 0.00327 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.000276 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.000375 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000347 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Vinyl acetate | U | | 0.00313 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Vinyl chloride | U | | 0.000381 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Xylenes, Total | U | | 0.000913 | 0.00392 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| *(S) Toluene-d8* | *94.9* | | | *80.0-120* | | *09/14/2017 16:15* | WG1020390 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/14/2017 16:15* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *89.2* | | | *64.0-132* | | *09/14/2017 16:15* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.9 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0409 | 0.121 | 1 | 09/15/2017 01:41 | WG1020572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *90.8* | | | *77.0-120* | | *09/15/2017 01:41* | WG1020572 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0121 | 0.0603 | 1 | 09/14/2017 16:36 | WG1020390 |
| Acrylonitrile | U | | 0.00216 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Benzene | U | | 0.000326 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Bromobenzene | U | J0 | 0.000343 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Bromodichloromethane | U | | 0.000307 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Bromochloromethane | U | | 0.000471 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| Bromoform | U | | 0.000512 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Bromomethane | U | | 0.00162 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| n-Butylbenzene | U | | 0.000311 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| sec-Butylbenzene | U | | 0.000243 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| tert-Butylbenzene | U | | 0.000249 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Carbon disulfide | U | | 0.000267 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Carbon tetrachloride | U | | 0.000396 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Chlorobenzene | U | | 0.000256 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Chlorodibromomethane | U | | 0.000450 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Chloroethane | U | J0 | 0.00114 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| Chloroform | U | | 0.000276 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| Chloromethane | U | J0 | 0.000453 | 0.00302 | 1 | 09/14/2017 16:36 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000363 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000290 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00127 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000414 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Dibromomethane | U | | 0.000461 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000368 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000288 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000273 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000860 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000240 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000320 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000366 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000284 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000319 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000432 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000383 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000250 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000316 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000322 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000939 | 0.00302 | 1 | 09/14/2017 16:36 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000337 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Di-isopropyl ether | U | | 0.000299 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Ethylbenzene | U | | 0.000358 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000413 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 2-Hexanone | U | | 0.00165 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |
| n-Hexane | U | J0 | 0.000350 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00305 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Isopropylbenzene | U | | 0.000293 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000246 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.00565 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Methylene Chloride | U | | 0.00121 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00227 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Methyl tert-butyl ether | U | | 0.000256 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Naphthalene | U | | 0.00121 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| n-Propylbenzene | U | | 0.000249 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Styrene | U | | 0.000282 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000319 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000440 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000440 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Tetrachloroethene | U | | 0.000333 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Toluene | U | | 0.000524 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000369 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000468 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000345 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000334 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Trichloroethene | U | | 0.000337 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000461 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000894 | 0.00302 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.000255 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.000346 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000321 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Vinyl acetate | U | | 0.00288 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Vinyl chloride | U | | 0.000351 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Xylenes, Total | U | | 0.000842 | 0.00362 | 1 | 09/14/2017 16:36 | WG1020390 |
| *(S) Toluene-d8* | *99.0* | | | *80.0-120* | | *09/14/2017 16:36* | WG1020390 |
| *(S) Dibromofluoromethane* | *97.6* | | | *74.0-131* | | *09/14/2017 16:36* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *83.9* | | | *64.0-132* | | *09/14/2017 16:36* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.1 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0119 | 0.0594 | 1 | 09/14/2017 16:56 | WG1020390 |
| Acrylonitrile | U | | 0.00213 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Benzene | U | | 0.000321 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Bromobenzene | U | J0 | 0.000338 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Bromodichloromethane | U | | 0.000302 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Bromochloromethane | U | | 0.000464 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| Bromoform | U | | 0.000504 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Bromomethane | U | | 0.00159 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| n-Butylbenzene | U | | 0.000307 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| sec-Butylbenzene | U | | 0.000239 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| tert-Butylbenzene | U | | 0.000245 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Carbon disulfide | U | | 0.000263 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Carbon tetrachloride | U | | 0.000390 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Chlorobenzene | U | | 0.000252 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Chlorodibromomethane | U | | 0.000443 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Chloroethane | U | J0 | 0.00112 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| Chloroform | U | | 0.000272 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| Chloromethane | U | J0 | 0.000446 | 0.00297 | 1 | 09/14/2017 16:56 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000358 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000285 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000408 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Dibromomethane | U | | 0.000454 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000363 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000284 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000269 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000848 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000237 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000315 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000360 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000279 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000314 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000426 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000377 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000246 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000311 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000317 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000925 | 0.00297 | 1 | 09/14/2017 16:56 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000332 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Di-isopropyl ether | U | | 0.000295 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Ethylbenzene | U | | 0.000353 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000407 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 2-Hexanone | U | | 0.00163 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |
| n-Hexane | U | J0 | 0.000345 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Iodomethane | U | | 0.00301 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Isopropylbenzene | U | | 0.000289 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000243 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.00556 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Methylene Chloride | U | | 0.00119 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00223 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000252 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Naphthalene | U | | 0.00119 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| n-Propylbenzene | U | | 0.000245 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Styrene | U | | 0.000278 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000314 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000434 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000434 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Tetrachloroethene | U | | 0.000328 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Toluene | U | | 0.000516 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000364 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000461 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000340 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000329 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Trichloroethene | U | | 0.000332 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000454 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000881 | 0.00297 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.000251 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.000341 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000316 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Vinyl acetate | U | | 0.00284 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Vinyl chloride | U | | 0.000346 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Xylenes, Total | U | | 0.000830 | 0.00357 | 1 | 09/14/2017 16:56 | WG1020390 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/14/2017 16:56* | WG1020390 |
| *(S) Dibromofluoromethane* | *97.2* | | | *74.0-131* | | *09/14/2017 16:56* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *84.8* | | | *64.0-132* | | *09/14/2017 16:56* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.2 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0108 | 0.0542 | 1 | 09/14/2017 17:17 | WG1020390 |
| Acrylonitrile | U | | 0.00194 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Benzene | U | | 0.000293 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Bromobenzene | U | J0 | 0.000308 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Bromochloromethane | U | | 0.000423 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 |
| Bromoform | U | | 0.000460 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Bromomethane | U | | 0.00145 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 |
| n-Butylbenzene | U | | 0.000280 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| sec-Butylbenzene | U | | 0.000218 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Carbon disulfide | U | | 0.000240 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Carbon tetrachloride | U | | 0.000356 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Chlorobenzene | U | | 0.000230 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Chlorodibromomethane | U | | 0.000405 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Chloroethane | U | J0 | 0.00103 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 |
| Chloroform | U | | 0.000248 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 |
| Chloromethane | U | J0 | 0.000407 | 0.00271 | 1 | 09/14/2017 17:17 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000326 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000260 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000372 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Dibromomethane | U | | 0.000414 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000259 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000245 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000773 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000287 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000329 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000255 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000286 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000388 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000344 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000284 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000844 | 0.00271 | 1 | 09/14/2017 17:17 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Di-isopropyl ether | U | | 0.000269 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Ethylbenzene | U | | 0.000322 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000371 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 2-Hexanone | U | | 0.00149 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 |
| n-Hexane | 0.000333 | J J0 | 0.000314 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Iodomethane | U | | 0.00274 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Isopropylbenzene | U | | 0.000264 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.00508 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Methylene Chloride | U | | 0.00108 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000230 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Naphthalene | U | | 0.00108 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Styrene | U | | 0.000254 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000286 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000396 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000396 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Tetrachloroethene | U | | 0.000299 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Toluene | U | | 0.000471 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000332 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000421 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000310 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000300 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Trichloroethene | U | | 0.000303 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000414 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000804 | 0.00271 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.000229 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.000311 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Vinyl acetate | U | | 0.00259 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Vinyl chloride | U | | 0.000316 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Xylenes, Total | U | | 0.000757 | 0.00325 | 1 | 09/14/2017 17:17 | WG1020390 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/14/2017 17:17* | WG1020390 |
| *(S) Dibromofluoromethane* | *99.1* | | | *74.0-131* | | *09/14/2017 17:17* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *84.6* | | | *64.0-132* | | *09/14/2017 17:17* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.9 | | 1 | 09/16/2017 10:30 | WG1021103 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0115 | 0.0576 | 1 | 09/14/2017 17:38 | WG1020390 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Benzene | U | | 0.000311 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Bromobenzene | U | J0 | 0.000327 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Bromochloromethane | U | | 0.000449 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| Bromoform | U | | 0.000488 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Bromomethane | U | | 0.00154 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| n-Butylbenzene | U | | 0.000297 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| tert-Butylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Carbon disulfide | U | | 0.000254 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Carbon tetrachloride | U | | 0.000378 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Chlorobenzene | U | | 0.000244 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Chlorodibromomethane | U | | 0.000429 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Chloroethane | U | J0 | 0.00109 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| Chloroform | U | | 0.000264 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| Chloromethane | U | J0 | 0.000432 | 0.00288 | 1 | 09/14/2017 17:38 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000347 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000276 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000395 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Dibromomethane | U | | 0.000440 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000275 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000260 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000821 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000229 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000305 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000349 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000271 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000304 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000412 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000365 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000302 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000307 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000896 | 0.00288 | 1 | 09/14/2017 17:38 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000321 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Di-isopropyl ether | U | | 0.000285 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Ethylbenzene | U | | 0.000342 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000394 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |
| n-Hexane | U | J0 | 0.000334 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Iodomethane | U | | 0.00291 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.00539 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Methylene Chloride | U | | 0.00115 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Naphthalene | U | | 0.00115 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000304 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000420 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000420 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Tetrachloroethene | U | | 0.000318 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Toluene | U | | 0.000500 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000447 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000329 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000319 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Trichloroethene | U | | 0.000321 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000440 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000853 | 0.00288 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.000243 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.000330 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000306 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Vinyl acetate | U | | 0.00275 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Vinyl chloride | U | | 0.000335 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Xylenes, Total | U | | 0.000804 | 0.00345 | 1 | 09/14/2017 17:38 | WG1020390 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/14/2017 17:38* | WG1020390 |
| *(S) Dibromofluoromethane* | *90.4* | | | *74.0-131* | | *09/14/2017 17:38* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *88.5* | | | *64.0-132* | | *09/14/2017 17:38* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.4 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0107 | 0.0535 | 1 | 09/14/2017 17:58 | WG1020390 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Benzene | U | | 0.000289 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Bromobenzene | U | J0 | 0.000304 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Bromochloromethane | U | | 0.000417 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| Bromoform | U | | 0.000454 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Bromomethane | U | | 0.00143 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Carbon disulfide | U | | 0.000237 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Carbon tetrachloride | U | | 0.000351 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Chloroethane | U | J0 | 0.00101 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| Chloroform | U | | 0.000245 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| Chloromethane | U | J0 | 0.000401 | 0.00268 | 1 | 09/14/2017 17:58 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000367 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Dibromomethane | U | | 0.000409 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000763 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000252 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000283 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000280 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000833 | 0.00268 | 1 | 09/14/2017 17:58 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000299 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Di-isopropyl ether | U | | 0.000265 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000366 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |
| n-Hexane | U | J0 | 0.000310 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.00501 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Methylene Chloride | U | | 0.00107 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Naphthalene | U | | 0.00107 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000283 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000391 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000391 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Tetrachloroethene | 0.00480 | | 0.000295 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Toluene | U | | 0.000464 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000415 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000296 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Trichloroethene | U | | 0.000299 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000409 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000793 | 0.00268 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.000226 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.000307 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Vinyl chloride | U | | 0.000311 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Xylenes, Total | U | | 0.000747 | 0.00321 | 1 | 09/14/2017 17:58 | WG1020390 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/14/2017 17:58* | WG1020390 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/14/2017 17:58* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *84.6* | | | *64.0-132* | | *09/14/2017 17:58* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.8 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0118 | 0.0589 | 1 | 09/18/2017 16:20 | WG1020390 |
| Acrylonitrile | U | | 0.00211 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Benzene | U | | 0.000318 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Bromobenzene | U | | 0.000335 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Bromodichloromethane | U | | 0.000299 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Bromochloromethane | U | | 0.000460 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| Bromoform | U | | 0.000500 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Bromomethane | U | | 0.00158 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| n-Butylbenzene | U | | 0.000304 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| sec-Butylbenzene | U | | 0.000237 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| tert-Butylbenzene | U | | 0.000243 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Carbon disulfide | U | | 0.000261 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Carbon tetrachloride | U | | 0.000387 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Chlorobenzene | U | | 0.000250 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Chlorodibromomethane | U | | 0.000440 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Chloroethane | U | | 0.00112 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| Chloroform | U | | 0.000270 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| Chloromethane | U | J0 | 0.000442 | 0.00295 | 1 | 09/18/2017 16:20 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000355 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000283 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000404 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Dibromomethane | U | | 0.000450 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000360 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000282 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000266 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000841 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000235 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000312 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000357 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| cis-1,2-Dichloroethene | 0.0620 | | 0.000277 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000311 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000422 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000374 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000244 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000309 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000315 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000917 | 0.00295 | 1 | 09/18/2017 16:20 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000329 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Di-isopropyl ether | U | J0 | 0.000292 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Ethylbenzene | U | | 0.000350 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000403 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 2-Hexanone | U | | 0.00162 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |
| n-Hexane | 0.000447 | J | 0.000342 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Iodomethane | U | | 0.00298 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Isopropylbenzene | U | | 0.000286 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000241 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 2-Butanone (MEK) | U | | 0.00552 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Methylene Chloride | U | | 0.00118 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00222 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000250 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Naphthalene | U | | 0.00118 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Styrene | U | | 0.000276 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000311 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000430 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000430 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Tetrachloroethene | 0.0277 | | 0.000325 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Toluene | U | | 0.000512 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000361 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000457 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000337 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000327 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Trichloroethene | 0.00195 | | 0.000329 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000450 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000874 | 0.00295 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | | 0.000338 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000314 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Vinyl chloride | U | | 0.000343 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Xylenes, Total | U | | 0.000823 | 0.00354 | 1 | 09/18/2017 16:20 | WG1020390 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/18/2017 16:20* | WG1020390 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/18/2017 16:20* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/18/2017 16:20* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.6 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0107 | 0.0534 | 1 | 09/14/2017 18:40 | WG1020390 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Benzene | U | | 0.000288 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Bromobenzene | U | J0 | 0.000303 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Bromodichloromethane | U | | 0.000271 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Bromochloromethane | U | | 0.000417 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| Bromoform | U | | 0.000453 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Bromomethane | U | | 0.00143 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Carbon disulfide | 0.000435 | J | 0.000236 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Carbon tetrachloride | U | | 0.000350 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Chloroethane | U | J0 | 0.00101 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| Chloroform | U | | 0.000245 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| Chloromethane | U | J0 | 0.000401 | 0.00267 | 1 | 09/14/2017 18:40 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000256 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000366 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Dibromomethane | U | | 0.000408 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000255 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000762 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000283 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000251 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000282 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000280 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000285 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000831 | 0.00267 | 1 | 09/14/2017 18:40 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000298 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Di-isopropyl ether | U | | 0.000265 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Ethylbenzene | U | | 0.000317 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000365 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 2-Hexanone | U | | 0.00146 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |
| n-Hexane | U | J0 | 0.000310 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Iodomethane | U | | 0.00270 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.00500 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Methylene Chloride | U | | 0.00107 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Naphthalene | U | | 0.00107 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000282 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000390 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000390 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Tetrachloroethene | U | | 0.000295 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Toluene | U | | 0.000464 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000415 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000296 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Trichloroethene | U | | 0.000298 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000408 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000792 | 0.00267 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.000225 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.000307 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000284 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Vinyl acetate | U | | 0.00255 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Vinyl chloride | U | | 0.000311 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Xylenes, Total | U | | 0.000746 | 0.00321 | 1 | 09/14/2017 18:40 | WG1020390 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/14/2017 18:40* | WG1020390 |
| *(S) Dibromofluoromethane* | *98.9* | | | *74.0-131* | | *09/14/2017 18:40* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *86.5* | | | *64.0-132* | | *09/14/2017 18:40* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.0 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0106 | 0.0532 | 1 | 09/14/2017 19:00 | WG1020390 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Benzene | U | | 0.000287 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Bromobenzene | U | J0 | 0.000302 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Bromodichloromethane | U | | 0.000270 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Bromochloromethane | U | | 0.000415 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| Bromoform | U | | 0.000451 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Bromomethane | U | | 0.00143 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| n-Butylbenzene | U | | 0.000275 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| sec-Butylbenzene | U | | 0.000214 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| tert-Butylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Carbon disulfide | 0.000807 | J | 0.000235 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Carbon tetrachloride | U | | 0.000349 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Chlorobenzene | U | | 0.000226 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Chlorodibromomethane | U | | 0.000397 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Chloroethane | U | J0 | 0.00101 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| Chloroform | U | | 0.000244 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| Chloromethane | U | J0 | 0.000399 | 0.00266 | 1 | 09/14/2017 19:00 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000320 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000365 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Dibromomethane | U | | 0.000406 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000254 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000240 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000759 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000282 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000322 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000250 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000281 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000381 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000337 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000284 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000828 | 0.00266 | 1 | 09/14/2017 19:00 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Di-isopropyl ether | U | | 0.000264 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Ethylbenzene | U | | 0.000316 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000364 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 2-Hexanone | U | | 0.00146 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |
| n-Hexane | 0.00329 | J J0 | 0.000309 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Iodomethane | U | | 0.00269 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Isopropylbenzene | U | | 0.000259 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.00498 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Methylene Chloride | U | | 0.00106 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Naphthalene | U | | 0.00106 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| n-Propylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Styrene | U | | 0.000249 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000388 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000388 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Tetrachloroethene | U | | 0.000294 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Toluene | U | | 0.000462 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000326 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000413 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000304 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Trichloroethene | U | | 0.000297 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000406 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000788 | 0.00266 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.000225 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.000305 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000283 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Vinyl acetate | U | | 0.00254 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Vinyl chloride | U | | 0.000310 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Xylenes, Total | U | | 0.000743 | 0.00319 | 1 | 09/14/2017 19:00 | WG1020390 |
| *(S) Toluene-d8* | *98.0* | | | *80.0-120* | | *09/14/2017 19:00* | WG1020390 |
| *(S) Dibromofluoromethane* | *98.0* | | | *74.0-131* | | *09/14/2017 19:00* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *85.7* | | | *64.0-132* | | *09/14/2017 19:00* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.3 | | 1 | 09/19/2017 09:14 | WG1021489 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0111 | 0.0554 | 1 | 09/14/2017 19:21 | WG1020390 |
| Acrylonitrile | U | | 0.00198 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Benzene | U | | 0.000299 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Bromobenzene | U | J0 | 0.000315 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Bromodichloromethane | U | | 0.000281 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Bromochloromethane | U | | 0.000432 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 |
| Bromoform | U | | 0.000470 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Bromomethane | U | | 0.00148 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 |
| n-Butylbenzene | U | | 0.000286 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| tert-Butylbenzene | U | | 0.000228 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Carbon disulfide | 0.000688 | J | 0.000245 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Carbon tetrachloride | U | | 0.000363 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Chlorobenzene | U | | 0.000235 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Chlorodibromomethane | U | | 0.000413 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Chloroethane | U | J0 | 0.00105 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 |
| Chloroform | U | | 0.000254 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 |
| Chloromethane | U | J0 | 0.000415 | 0.00277 | 1 | 09/14/2017 19:21 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000333 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000266 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000380 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Dibromomethane | U | | 0.000423 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000338 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000265 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000250 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000790 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000220 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000293 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000336 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000260 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000292 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000396 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000351 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000229 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000290 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000296 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000862 | 0.00277 | 1 | 09/14/2017 19:21 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000309 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Di-isopropyl ether | U | | 0.000275 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Ethylbenzene | U | | 0.000329 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000379 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 2-Hexanone | U | | 0.00152 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 |
| n-Hexane | 0.000446 | J J0 | 0.000321 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Iodomethane | U | | 0.00280 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Isopropylbenzene | U | | 0.000269 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000226 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.00518 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Methylene Chloride | U | | 0.00111 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00208 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000235 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Naphthalene | U | | 0.00111 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 |
| n-Propylbenzene | U | | 0.000228 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Styrene | U | | 0.000259 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000292 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000404 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000404 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Tetrachloroethene | U | | 0.000306 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Toluene | U | | 0.000481 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000430 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000317 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000307 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Trichloroethene | U | | 0.000309 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000423 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000821 | 0.00277 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.000234 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.000318 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000295 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Vinyl acetate | U | | 0.00265 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Vinyl chloride | U | | 0.000322 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Xylenes, Total | U | | 0.000773 | 0.00332 | 1 | 09/14/2017 19:21 | WG1020390 |
| *(S) Toluene-d8* | *100* | | | *80.0-120* | | *09/14/2017 19:21* | WG1020390 |
| *(S) Dibromofluoromethane* | *99.4* | | | *74.0-131* | | *09/14/2017 19:21* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *88.1* | | | *64.0-132* | | *09/14/2017 19:21* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.6 | | 1 | 09/19/2017 09:14 | WG1021489 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0106 | 0.0529 | 1 | 09/14/2017 19:41 | WG1020390 |
| Acrylonitrile | U | | 0.00189 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Benzene | U | | 0.000285 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Bromobenzene | U | J0 | 0.000300 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Bromodichloromethane | U | | 0.000268 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Bromochloromethane | U | | 0.000412 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| Bromoform | U | | 0.000448 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Bromomethane | U | | 0.00142 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| n-Butylbenzene | U | | 0.000273 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| sec-Butylbenzene | U | | 0.000212 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| tert-Butylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Carbon disulfide | 0.000913 | J | 0.000234 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Carbon tetrachloride | U | | 0.000347 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Chlorobenzene | U | | 0.000224 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Chlorodibromomethane | U | | 0.000394 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Chloroethane | U | J0 | 0.00100 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| Chloroform | U | | 0.000242 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| Chloromethane | U | J0 | 0.000396 | 0.00264 | 1 | 09/14/2017 19:41 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000318 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000254 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000363 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Dibromomethane | U | | 0.000404 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000322 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000253 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000239 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000754 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000210 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000280 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000320 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000248 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000279 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000378 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000335 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000219 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000277 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000282 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000822 | 0.00264 | 1 | 09/14/2017 19:41 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000295 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Di-isopropyl ether | U | | 0.000262 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Ethylbenzene | U | | 0.000314 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000362 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 2-Hexanone | U | | 0.00145 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |
| n-Hexane | U | J0 | 0.000307 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Iodomethane | U | | 0.00267 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Isopropylbenzene | U | | 0.000257 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000216 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.00495 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Methylene Chloride | U | | 0.00106 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00199 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000224 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Naphthalene | U | | 0.00106 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| n-Propylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Styrene | U | | 0.000247 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000279 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000386 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000386 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Tetrachloroethene | U | | 0.000292 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Toluene | U | | 0.000459 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000323 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000410 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000302 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000293 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Trichloroethene | U | | 0.000295 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000404 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000783 | 0.00264 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.000223 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.000303 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000281 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Vinyl acetate | U | | 0.00253 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Vinyl chloride | U | | 0.000308 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Xylenes, Total | U | | 0.000738 | 0.00317 | 1 | 09/14/2017 19:41 | WG1020390 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/14/2017 19:41* | WG1020390 |
| *(S) Dibromofluoromethane* | *95.4* | | | *74.0-131* | | *09/14/2017 19:41* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *87.0* | | | *64.0-132* | | *09/14/2017 19:41* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.9 | | 1 | 09/19/2017 09:14 | WG1021489 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0112 | 0.0562 | 1 | 09/14/2017 20:02 | WG1020390 |
| Acrylonitrile | U | | 0.00201 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Benzene | U | | 0.000304 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Bromobenzene | U | J0 | 0.000319 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Bromodichloromethane | U | | 0.000286 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Bromochloromethane | U | | 0.000439 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| Bromoform | U | | 0.000477 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Bromomethane | U | | 0.00151 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| n-Butylbenzene | U | | 0.000290 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| sec-Butylbenzene | U | | 0.000226 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| tert-Butylbenzene | U | | 0.000232 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Carbon disulfide | 0.00276 | | 0.000249 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Carbon tetrachloride | U | | 0.000369 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Chlorobenzene | U | | 0.000238 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Chlorodibromomethane | U | | 0.000420 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Chloroethane | U | J0 | 0.00106 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| Chloroform | U | | 0.000258 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| Chloromethane | 0.00179 | J J0 | 0.000422 | 0.00281 | 1 | 09/14/2017 20:02 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000339 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000270 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000386 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Dibromomethane | U | | 0.000430 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000343 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000269 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000254 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000802 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000224 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000298 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000341 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000264 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000297 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000403 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000357 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000233 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000295 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000300 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000875 | 0.00281 | 1 | 09/14/2017 20:02 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000314 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Di-isopropyl ether | U | | 0.000279 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Ethylbenzene | U | | 0.000334 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000385 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 2-Hexanone | U | | 0.00154 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |
| n-Hexane | 0.00365 | J J0 | 0.000326 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Iodomethane | U | | 0.00285 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Isopropylbenzene | U | | 0.000273 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000229 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.00526 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Methylene Chloride | U | | 0.00112 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00211 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000238 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Naphthalene | U | | 0.00112 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| n-Propylbenzene | U | | 0.000232 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Styrene | U | | 0.000263 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000297 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000411 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000411 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Tetrachloroethene | U | | 0.000310 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Toluene | U | | 0.000488 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000344 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000436 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000322 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000312 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Trichloroethene | U | | 0.000314 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000430 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000833 | 0.00281 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.000237 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.000323 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000299 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Vinyl acetate | U | | 0.00269 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Vinyl chloride | U | | 0.000327 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Xylenes, Total | U | | 0.000785 | 0.00337 | 1 | 09/14/2017 20:02 | WG1020390 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/14/2017 20:02* | WG1020390 |
| *(S) Dibromofluoromethane* | *98.6* | | | *74.0-131* | | *09/14/2017 20:02* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *84.3* | | | *64.0-132* | | *09/14/2017 20:02* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.4 | | 1 | 09/19/2017 09:14 | WG1021489 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.286 | 1.43 | 25 | 09/14/2017 20:43 | WG1020390 |
| Acrylonitrile | U | | 0.0512 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Benzene | U | | 0.00772 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Bromobenzene | U | J0 | 0.00812 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Bromodichloromethane | U | | 0.00726 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Bromochloromethane | U | | 0.0112 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| Bromoform | U | | 0.0121 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Bromomethane | U | | 0.0383 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| n-Butylbenzene | U | | 0.00738 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| sec-Butylbenzene | U | | 0.00574 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| tert-Butylbenzene | U | | 0.00589 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Carbon disulfide | U | | 0.00631 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Carbon tetrachloride | U | | 0.00938 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Chlorobenzene | U | | 0.00606 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Chlorodibromomethane | U | | 0.0107 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Chloroethane | U | J0 | 0.0270 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| Chloroform | U | | 0.00654 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| Chloromethane | U | J0 | 0.0107 | 0.0715 | 25 | 09/14/2017 20:43 | WG1020390 |
| 2-Chlorotoluene | U | | 0.00860 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 4-Chlorotoluene | U | | 0.00686 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0300 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.00981 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Dibromomethane | U | | 0.0109 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.00872 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.00684 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.00646 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.0204 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.00570 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.00757 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1-Dichloroethene | 0.0242 | J | 0.00867 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| cis-1,2-Dichloroethene | 1.55 | | 0.00673 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.00755 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.0102 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.00906 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.00592 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.00749 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.00764 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.0222 | 0.0715 | 25 | 09/14/2017 20:43 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.00798 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Di-isopropyl ether | U | | 0.00709 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Ethylbenzene | U | | 0.00849 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.00978 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 2-Hexanone | U | | 0.0391 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |
| n-Hexane | U | J0 | 0.00829 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Iodomethane | U | | 0.0723 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Isopropylbenzene | U | | 0.00695 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| p-Isopropyltoluene | U | | 0.00583 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.134 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Methylene Chloride | U | | 0.0286 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.0538 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.00606 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Naphthalene | U | | 0.0286 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| n-Propylbenzene | U | | 0.00589 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Styrene | U | | 0.00669 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00755 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0104 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0104 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Tetrachloroethene | 11.1 | | 0.0789 | 0.286 | 250 | 09/18/2017 16:40 | WG1020390 |
| Toluene | U | | 0.0124 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.00875 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.0111 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.00818 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.00791 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Trichloroethene | 1.02 | | 0.00798 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Trichlorofluoromethane | U | | 0.0109 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.0212 | 0.0715 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.00604 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.00821 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.00761 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Vinyl acetate | U | | 0.0684 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Vinyl chloride | U | | 0.00833 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Xylenes, Total | U | | 0.0199 | 0.0858 | 25 | 09/14/2017 20:43 | WG1020390 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/14/2017 20:43* | WG1020390 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *09/18/2017 16:40* | WG1020390 |
| *(S) Dibromofluoromethane* | *91.8* | | | *74.0-131* | | *09/14/2017 20:43* | WG1020390 |
| *(S) Dibromofluoromethane* | *95.0* | | | *74.0-131* | | *09/18/2017 16:40* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/18/2017 16:40* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *90.9* | | | *64.0-132* | | *09/14/2017 20:43* | WG1020390 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.7 | | 1 | 09/19/2017 09:14 | WG1021489 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0110 | 0.0551 | 1 | 09/14/2017 20:23 | WG1020390 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Benzene | U | | 0.000298 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Bromobenzene | U | J0 | 0.000313 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Bromochloromethane | U | | 0.000430 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| Bromoform | U | | 0.000468 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Bromomethane | U | | 0.00148 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| n-Butylbenzene | U | | 0.000285 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| sec-Butylbenzene | U | | 0.000222 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Carbon disulfide | 0.000331 | J | 0.000244 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Carbon tetrachloride | U | | 0.000362 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Chlorodibromomethane | U | | 0.000411 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Chloroethane | U | J0 | 0.00104 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| Chloroform | U | | 0.000253 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| Chloromethane | U | J0 | 0.000414 | 0.00276 | 1 | 09/14/2017 20:23 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000265 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000378 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Dibromomethane | U | | 0.000421 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000264 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000249 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000786 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000292 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000334 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000259 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000291 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000395 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000350 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000294 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000858 | 0.00276 | 1 | 09/14/2017 20:23 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000308 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Di-isopropyl ether | U | | 0.000273 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Ethylbenzene | U | | 0.000328 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000377 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |
| n-Hexane | U | J0 | 0.000320 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 2-Butanone (MEK) | U | J0 | 0.00516 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Methylene Chloride | U | | 0.00110 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00207 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000234 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Naphthalene | U | | 0.00110 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000291 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000403 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000403 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Tetrachloroethene | U | | 0.000304 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Toluene | U | | 0.000479 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000428 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000315 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000305 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Trichloroethene | U | | 0.000308 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000421 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000817 | 0.00276 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | J0 | 0.000233 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | J0 | 0.000316 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000293 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Vinyl acetate | U | | 0.00264 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Vinyl chloride | U | | 0.000321 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Xylenes, Total | U | | 0.000770 | 0.00331 | 1 | 09/14/2017 20:23 | WG1020390 |
| *(S) Toluene-d8* | *97.7* | | | *80.0-120* | | *09/14/2017 20:23* | WG1020390 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/14/2017 20:23* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *89.1* | | | *64.0-132* | | *09/14/2017 20:23* | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1.05 | 25.0 | 1 | 09/14/2017 12:47 | WG1020322 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/14/2017 12:47 | WG1020322 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/14/2017 12:47 | WG1020322 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/14/2017 12:47* | WG1020322 |
| *(S) Dibromofluoromethane* | *99.6* | | | *76.0-123* | | *09/14/2017 12:47* | WG1020322 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *80.0-120* | | *09/14/2017 12:47* | WG1020322 |

## Method Blank (MB)

(MB) R3249931-1 09/16/17 10:30

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.000100 | | | |

## L936064-02 Original Sample (OS) • Duplicate (DUP)

(OS) L936064-02 09/16/17 10:30 • (DUP) R3249931-3 09/16/17 10:30

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 82.0 | 81.3 | 1 | 0.886 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3249931-2 09/16/17 10:30

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3250542-1 09/19/17 07:43

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000800 | | | |

## L936064-01 Original Sample (OS) • Duplicate (DUP)

(OS) L936064-01 09/19/17 07:43 • (DUP) R3250542-3 09/19/17 07:43

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 88.1 | 87.6 | 1 | 0.576 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3250542-2 09/19/17 07:43

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3250549-1 09/19/17 09:14

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00130 | | | |

## L936064-13 Original Sample (OS) • Duplicate (DUP)

(OS) L936064-13 09/19/17 09:14 • (DUP) R3250549-3 09/19/17 09:14

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 90.3 | 91.3 | 1 | 1.14 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3250549-2 09/19/17 09:14

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3249641-3 09/14/17 23:50

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 0.0339 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.4* | | | *77.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3249641-1 09/14/17 22:43 • (LCSD) R3249641-2 09/14/17 23:05

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | 5.18 | 5.22 | 94.3 | 94.9 | 70.0-133 | | | 0.640 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *108* | *109* | *77.0-120* | | | | |

## L936105-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L936105-01 09/15/17 07:16 • (MS) R3249641-4 09/15/17 07:38 • (MSD) R3249641-5 09/15/17 08:00

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | ND | 92.3 | 96.5 | 44.9 | 47.9 | 25 | 10.0-146 | | | 4.37 | 30 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *95.5* | *95.5* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3249454-5 09/14/17 10:31

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3249454-5 09/14/17 10:31

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | ug/l | | ug/l | ug/l |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Ethylbenzene | U | | 0.158 | 0.500 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *98.9* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3249454-1 09/14/17 08:51 • (LCSD) R3249454-2 09/14/17 09:11

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 129 | 113 | 103 | 90.3 | 10.0-160 | | | 13.3 | 23 |
| Acrylonitrile | 125 | 130 | 132 | 104 | 105 | 60.0-142 | | | 1.49 | 20 |
| Bromobenzene | 25.0 | 24.1 | 24.6 | 96.5 | 98.4 | 79.0-120 | | | 2.02 | 20 |
| Bromodichloromethane | 25.0 | 25.2 | 25.3 | 101 | 101 | 76.0-120 | | | 0.380 | 20 |
| Bromochloromethane | 25.0 | 25.5 | 25.8 | 102 | 103 | 76.0-122 | | | 1.40 | 20 |
| Bromoform | 25.0 | 26.0 | 26.0 | 104 | 104 | 67.0-132 | | | 0.0400 | 20 |
| Bromomethane | 25.0 | 23.7 | 25.2 | 94.8 | 101 | 18.0-160 | | | 6.08 | 20 |
| n-Butylbenzene | 25.0 | 27.3 | 28.1 | 109 | 113 | 72.0-126 | | | 3.05 | 20 |
| sec-Butylbenzene | 25.0 | 25.8 | 26.7 | 103 | 107 | 74.0-121 | | | 3.45 | 20 |
| tert-Butylbenzene | 25.0 | 25.7 | 26.3 | 103 | 105 | 75.0-122 | | | 2.06 | 20 |
| Carbon disulfide | 25.0 | 25.3 | 25.7 | 101 | 103 | 55.0-127 | | | 1.87 | 20 |
| Carbon tetrachloride | 25.0 | 24.5 | 24.9 | 98.0 | 99.7 | 63.0-122 | | | 1.70 | 20 |
| Chlorobenzene | 25.0 | 25.6 | 25.9 | 102 | 103 | 79.0-121 | | | 1.17 | 20 |
| Chlorodibromomethane | 25.0 | 26.4 | 26.5 | 106 | 106 | 75.0-125 | | | 0.480 | 20 |
| Chloroethane | 25.0 | 25.0 | 25.2 | 100 | 101 | 47.0-152 | | | 0.720 | 20 |
| Chloroform | 25.0 | 25.3 | 25.2 | 101 | 101 | 72.0-121 | | | 0.120 | 20 |
| Chloromethane | 25.0 | 22.5 | 22.8 | 89.9 | 91.2 | 48.0-139 | | | 1.48 | 20 |
| 2-Chlorotoluene | 25.0 | 25.2 | 25.7 | 101 | 103 | 74.0-122 | | | 1.80 | 20 |
| 4-Chlorotoluene | 25.0 | 25.1 | 25.4 | 100 | 102 | 79.0-120 | | | 1.22 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 24.9 | 25.8 | 99.6 | 103 | 64.0-127 | | | 3.74 | 20 |
| 1,2-Dibromoethane | 25.0 | 26.0 | 25.8 | 104 | 103 | 77.0-123 | | | 0.410 | 20 |
| Dibromomethane | 25.0 | 25.6 | 25.6 | 102 | 102 | 78.0-120 | | | 0.0300 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 25.8 | 26.0 | 103 | 104 | 80.0-120 | | | 0.590 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 25.7 | 26.1 | 103 | 104 | 72.0-123 | | | 1.46 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 25.1 | 25.5 | 101 | 102 | 77.0-120 | | | 1.43 | 20 |
| Dichlorodifluoromethane | 25.0 | 22.5 | 22.8 | 90.0 | 91.3 | 49.0-155 | | | 1.45 | 20 |
| 1,1-Dichloroethane | 25.0 | 26.0 | 26.0 | 104 | 104 | 70.0-126 | | | 0.0800 | 20 |
| 1,2-Dichloroethane | 25.0 | 25.7 | 25.5 | 103 | 102 | 67.0-126 | | | 0.810 | 20 |
| 1,1-Dichloroethene | 25.0 | 26.0 | 26.6 | 104 | 106 | 64.0-129 | | | 2.08 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 25.3 | 25.3 | 101 | 101 | 73.0-120 | | | 0.170 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 25.6 | 26.1 | 103 | 104 | 71.0-121 | | | 1.71 | 20 |
| 1,2-Dichloropropane | 25.0 | 26.6 | 26.7 | 106 | 107 | 75.0-125 | | | 0.160 | 20 |
| 1,1-Dichloropropene | 25.0 | 26.1 | 26.3 | 104 | 105 | 71.0-129 | | | 0.880 | 20 |
| 1,3-Dichloropropane | 25.0 | 25.6 | 25.6 | 103 | 102 | 80.0-121 | | | 0.200 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 29.0 | 29.1 | 116 | 116 | 79.0-123 | | | 0.490 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 28.1 | 28.4 | 112 | 114 | 74.0-127 | | | 1.18 | 20 |
| Benzene | 25.0 | 25.4 | 25.4 | 102 | 101 | 69.0-123 | | | 0.350 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 21.7 | 22.7 | 86.8 | 90.8 | 55.0-134 | | | 4.58 | 20 |
| 2,2-Dichloropropane | 25.0 | 24.5 | 25.4 | 97.9 | 101 | 60.0-125 | | | 3.56 | 20 |
| Di-isopropyl ether | 25.0 | 25.1 | 25.3 | 101 | 101 | 59.0-133 | | | 0.710 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3249454-1 09/14/17 08:51 • (LCSD) R3249454-2 09/14/17 09:11

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | 25.0 | 27.9 | 27.5 | 112 | 110 | 64.0-131 | | | 1.47 | 20 |
| 2-Hexanone | 125 | 137 | 138 | 110 | 110 | 58.0-147 | | | 0.490 | 20 |
| n-Hexane | 25.0 | 27.0 | 27.1 | 108 | 109 | 56.0-124 | | | 0.460 | 20 |
| Iodomethane | 125 | 131 | 133 | 105 | 106 | 57.0-140 | | | 1.30 | 20 |
| Isopropylbenzene | 25.0 | 25.2 | 26.0 | 101 | 104 | 75.0-120 | | | 3.17 | 20 |
| p-Isopropyltoluene | 25.0 | 27.0 | 27.8 | 108 | 111 | 74.0-126 | | | 2.90 | 20 |
| 2-Butanone (MEK) | 125 | 109 | 109 | 87.5 | 87.3 | 37.0-158 | | | 0.200 | 20 |
| Methylene Chloride | 25.0 | 24.9 | 25.3 | 99.7 | 101 | 66.0-121 | | | 1.37 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 133 | 135 | 107 | 108 | 59.0-143 | | | 1.32 | 20 |
| n-Propylbenzene | 25.0 | 26.0 | 26.6 | 104 | 106 | 79.0-120 | | | 2.40 | 20 |
| Styrene | 25.0 | 26.1 | 26.7 | 104 | 107 | 78.0-124 | | | 2.16 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 25.4 | 26.0 | 101 | 104 | 75.0-122 | | | 2.34 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 26.4 | 27.2 | 106 | 109 | 71.0-122 | | | 2.88 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 26.2 | 26.7 | 105 | 107 | 61.0-136 | | | 1.62 | 20 |
| Tetrachloroethene | 25.0 | 25.7 | 25.8 | 103 | 103 | 70.0-127 | | | 0.590 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 27.6 | 27.4 | 110 | 110 | 61.0-133 | | | 0.610 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 28.1 | 27.2 | 112 | 109 | 69.0-129 | | | 3.12 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 25.3 | 26.2 | 101 | 105 | 68.0-122 | | | 3.68 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 26.0 | 26.0 | 104 | 104 | 78.0-120 | | | 0.0400 | 20 |
| Trichloroethene | 25.0 | 25.0 | 25.2 | 100 | 101 | 78.0-120 | | | 0.660 | 20 |
| Trichlorofluoromethane | 25.0 | 24.9 | 25.6 | 99.6 | 102 | 56.0-137 | | | 2.59 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 25.5 | 25.8 | 102 | 103 | 72.0-124 | | | 1.23 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 25.5 | 26.0 | 102 | 104 | 75.0-120 | | | 2.15 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 23.8 | 24.1 | 95.1 | 96.5 | 75.0-120 | | | 1.47 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 25.3 | 26.1 | 101 | 104 | 75.0-120 | | | 3.09 | 20 |
| Vinyl acetate | 125 | 169 | 168 | 135 | 135 | 46.0-160 | | | 0.200 | 20 |
| Vinyl chloride | 25.0 | 24.8 | 25.1 | 99.4 | 100 | 64.0-133 | | | 1.08 | 20 |
| Ethylbenzene | 25.0 | 25.4 | 25.7 | 101 | 103 | 77.0-120 | | | 1.54 | 20 |
| Methyl tert-butyl ether | 25.0 | 24.1 | 24.3 | 96.3 | 97.1 | 64.0-123 | | | 0.860 | 20 |
| Naphthalene | 25.0 | 24.8 | 25.6 | 99.2 | 102 | 62.0-128 | | | 3.25 | 20 |
| Toluene | 25.0 | 25.0 | 25.3 | 100 | 101 | 77.0-120 | | | 1.13 | 20 |
| Xylenes, Total | 75.0 | 76.6 | 77.5 | 102 | 103 | 77.0-120 | | | 1.17 | 20 |
| *(S) Toluene-d8* | | | | *102* | *103* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *101* | *101* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *100* | *101* | *80.0-120* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3250116-3 09/14/17 12:51

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3250116-3 09/14/17 12:51

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *92.1* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *87.5* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3250116-1 09/14/17 10:41 • (LCSD) R3250116-2 09/14/17 11:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0741 | 0.0814 | 59.3 | 65.1 | 11.0-160 | | | 9.34 | 23 |
| Acrylonitrile | 0.125 | 0.0983 | 0.0967 | 78.7 | 77.4 | 61.0-143 | | | 1.65 | 20 |
| Benzene | 0.0250 | 0.0209 | 0.0215 | 83.7 | 85.8 | 71.0-124 | | | 2.47 | 20 |
| Bromobenzene | 0.0250 | 0.0197 | 0.0210 | 78.9 | 83.8 | 78.0-120 | | | 6.08 | 20 |
| Bromodichloromethane | 0.0250 | 0.0221 | 0.0227 | 88.2 | 90.9 | 75.0-120 | | | 2.99 | 20 |
| Bromochloromethane | 0.0250 | 0.0231 | 0.0225 | 92.5 | 90.2 | 80.0-121 | | | 2.57 | 20 |
| Bromoform | 0.0250 | 0.0229 | 0.0240 | 91.5 | 95.8 | 65.0-133 | | | 4.63 | 20 |
| Bromomethane | 0.0250 | 0.0189 | 0.0203 | 75.4 | 81.2 | 26.0-160 | | | 7.35 | 20 |
| n-Butylbenzene | 0.0250 | 0.0211 | 0.0223 | 84.4 | 89.2 | 73.0-126 | | | 5.52 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0210 | 0.0222 | 83.8 | 89.0 | 75.0-121 | | | 6.00 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0210 | 0.0226 | 84.0 | 90.4 | 74.0-122 | | | 7.28 | 20 |
| Carbon disulfide | 0.0250 | 0.0193 | 0.0207 | 77.4 | 82.9 | 53.0-130 | | | 6.90 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0212 | 0.0224 | 84.9 | 89.4 | 66.0-123 | | | 5.21 | 20 |
| Chlorobenzene | 0.0250 | 0.0248 | 0.0273 | 99.2 | 109 | 79.0-121 | | | 9.77 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0245 | 0.0268 | 97.9 | 107 | 74.0-128 | | | 9.18 | 20 |
| Chloroethane | 0.0250 | 0.0173 | 0.0187 | 69.3 | 75.0 | 51.0-147 | | | 7.88 | 20 |
| Chloroform | 0.0250 | 0.0208 | 0.0219 | 83.1 | 87.4 | 73.0-123 | | | 5.00 | 20 |
| Chloromethane | 0.0250 | 0.0154 | 0.0166 | 61.8 | 66.3 | 51.0-138 | | | 7.08 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0207 | 0.0220 | 82.7 | 87.8 | 72.0-124 | | | 5.97 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0198 | 0.0213 | 79.3 | 85.2 | 78.0-120 | | | 7.23 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0225 | 0.0228 | 90.2 | 91.0 | 65.0-126 | | | 0.960 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0244 | 0.0259 | 97.8 | 104 | 78.0-122 | | | 5.86 | 20 |
| Dibromomethane | 0.0250 | 0.0219 | 0.0232 | 87.5 | 92.7 | 79.0-120 | | | 5.72 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0229 | 0.0244 | 91.4 | 97.4 | 80.0-120 | | | 6.39 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0232 | 0.0245 | 92.8 | 98.0 | 72.0-123 | | | 5.48 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0212 | 0.0224 | 84.9 | 89.8 | 77.0-120 | | | 5.57 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0213 | 0.0190 | 85.0 | 76.2 | 68.0-126 | | | 10.9 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0186 | 0.0199 | 74.4 | 79.8 | 49.0-155 | | | 6.92 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0215 | 0.0215 | 85.9 | 86.0 | 70.0-128 | | | 0.120 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0219 | 0.0214 | 87.6 | 85.8 | 69.0-128 | | | 2.10 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0195 | 0.0211 | 77.9 | 84.4 | 63.0-131 | | | 8.00 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0198 | 0.0206 | 79.1 | 82.2 | 74.0-123 | | | 3.81 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0200 | 0.0208 | 79.9 | 83.2 | 72.0-122 | | | 4.04 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0220 | 0.0229 | 87.8 | 91.5 | 75.0-126 | | | 4.14 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0210 | 0.0215 | 84.0 | 86.0 | 72.0-130 | | | 2.31 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0243 | 0.0261 | 97.0 | 104 | 80.0-121 | | | 7.38 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0259 | 0.0277 | 103 | 111 | 80.0-125 | | | 6.82 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0261 | 0.0277 | 104 | 111 | 75.0-129 | | | 5.93 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0204 | 0.0212 | 81.7 | 84.6 | 60.0-129 | | | 3.54 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0189 | 0.0191 | 75.6 | 76.5 | 62.0-133 | | | 1.13 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3250116-1 09/14/17 10:41 • (LCSD) R3250116-2 09/14/17 11:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0231 | 0.0250 | 92.5 | 100 | 77.0-120 | | | 7.86 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0238 | 0.0254 | 95.4 | 101 | 68.0-128 | | | 6.11 | 20 |
| 2-Hexanone | 0.125 | 0.109 | 0.112 | 87.2 | 89.3 | 61.0-143 | | | 2.28 | 20 |
| n-Hexane | 0.0250 | 0.0175 | 0.0188 | 70.0 | 75.2 | 57.0-125 | | | 7.13 | 20 |
| Iodomethane | 0.125 | 0.126 | 0.132 | 101 | 106 | 67.0-132 | | | 5.09 | 20 |
| Isopropylbenzene | 0.0250 | 0.0204 | 0.0218 | 81.6 | 87.0 | 75.0-120 | | | 6.42 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0218 | 0.0234 | 87.3 | 93.7 | 74.0-125 | | | 7.08 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0952 | 0.0907 | 76.2 | 72.5 | 37.0-159 | | | 4.89 | 20 |
| Methylene Chloride | 0.0250 | 0.0189 | 0.0198 | 75.7 | 79.3 | 67.0-123 | | | 4.69 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.111 | 0.113 | 89.1 | 90.1 | 60.0-144 | | | 1.10 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0196 | 0.0205 | 78.2 | 81.9 | 66.0-125 | | | 4.51 | 20 |
| Naphthalene | 0.0250 | 0.0204 | 0.0222 | 81.8 | 88.7 | 64.0-125 | | | 8.17 | 20 |
| n-Propylbenzene | 0.0250 | 0.0205 | 0.0220 | 82.1 | 88.0 | 78.0-120 | | | 6.95 | 20 |
| Styrene | 0.0250 | 0.0212 | 0.0226 | 84.9 | 90.5 | 78.0-124 | | | 6.43 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0237 | 0.0258 | 94.8 | 103 | 74.0-124 | | | 8.69 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0199 | 0.0209 | 79.4 | 83.6 | 73.0-120 | | | 5.08 | 20 |
| Tetrachloroethene | 0.0250 | 0.0268 | 0.0291 | 107 | 116 | 70.0-127 | | | 8.13 | 20 |
| Toluene | 0.0250 | 0.0223 | 0.0240 | 89.1 | 96.1 | 77.0-120 | | | 7.63 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0205 | 0.0219 | 82.1 | 87.6 | 64.0-135 | | | 6.48 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0233 | 0.0253 | 93.3 | 101 | 68.0-126 | | | 8.24 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0236 | 0.0249 | 94.3 | 99.7 | 70.0-127 | | | 5.59 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0207 | 0.0214 | 83.0 | 85.7 | 69.0-125 | | | 3.24 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0226 | 0.0243 | 90.3 | 97.1 | 78.0-120 | | | 7.23 | 20 |
| Trichloroethene | 0.0250 | 0.0238 | 0.0249 | 95.4 | 99.7 | 79.0-120 | | | 4.47 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0229 | 0.0241 | 91.5 | 96.2 | 59.0-136 | | | 4.98 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0202 | 0.0210 | 80.9 | 84.2 | 73.0-124 | | | 3.98 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0193 | 0.0205 | 77.1 | 82.0 | 76.0-120 | | | 6.13 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0194 | 0.0206 | 77.6 | 82.4 | 75.0-120 | | | 5.99 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0205 | 0.0223 | 82.1 | 89.1 | 75.0-120 | | | 8.17 | 20 |
| Vinyl acetate | 0.125 | 0.111 | 0.110 | 88.8 | 88.4 | 58.0-156 | | | 0.510 | 20 |
| Vinyl chloride | 0.0250 | 0.0199 | 0.0211 | 79.7 | 84.2 | 63.0-134 | | | 5.52 | 20 |
| Xylenes, Total | 0.0750 | 0.0683 | 0.0740 | 91.1 | 98.7 | 77.0-120 | | | 8.01 | 20 |
| *(S) Toluene-d8* | | | | *106* | *109* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *92.7* | *90.8* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *87.9* | *87.3* | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3249538-3 09/14/17 19:21

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3249538-3 09/14/17 19:21

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3249538-1 09/14/17 18:29 • (LCSD) R3249538-2 09/14/17 18:46

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0709 | 0.0640 | 56.7 | 51.2 | 11.0-160 | | | 10.2 | 23 |
| Acrylonitrile | 0.125 | 0.123 | 0.122 | 98.7 | 97.6 | 61.0-143 | | | 1.12 | 20 |
| Benzene | 0.0250 | 0.0254 | 0.0259 | 102 | 104 | 71.0-124 | | | 1.74 | 20 |
| Bromobenzene | 0.0250 | 0.0241 | 0.0241 | 96.5 | 96.5 | 78.0-120 | | | 0.0500 | 20 |
| Bromodichloromethane | 0.0250 | 0.0214 | 0.0227 | 85.7 | 90.6 | 75.0-120 | | | 5.61 | 20 |
| Bromoform | 0.0250 | 0.0191 | 0.0198 | 76.5 | 79.1 | 65.0-133 | | | 3.33 | 20 |
| Bromochloromethane | 0.0250 | 0.0233 | 0.0250 | 93.1 | 100 | 80.0-121 | | | 7.31 | 20 |
| Bromomethane | 0.0250 | 0.0248 | 0.0244 | 99.3 | 97.5 | 26.0-160 | | | 1.88 | 20 |
| n-Butylbenzene | 0.0250 | 0.0244 | 0.0260 | 97.7 | 104 | 73.0-126 | | | 6.29 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0241 | 0.0252 | 96.3 | 101 | 75.0-121 | | | 4.73 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0236 | 0.0246 | 94.4 | 98.3 | 74.0-122 | | | 4.07 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0244 | 0.0249 | 97.5 | 99.8 | 66.0-123 | | | 2.31 | 20 |
| Carbon disulfide | 0.0250 | 0.0224 | 0.0225 | 89.4 | 90.1 | 53.0-130 | | | 0.770 | 20 |
| Chlorobenzene | 0.0250 | 0.0235 | 0.0246 | 94.0 | 98.2 | 79.0-121 | | | 4.33 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0216 | 0.0217 | 86.3 | 86.8 | 74.0-128 | | | 0.510 | 20 |
| Chloroethane | 0.0250 | 0.0245 | 0.0254 | 97.8 | 102 | 51.0-147 | | | 3.69 | 20 |
| Chloroform | 0.0250 | 0.0251 | 0.0253 | 101 | 101 | 73.0-123 | | | 0.460 | 20 |
| Chloromethane | 0.0250 | 0.0246 | 0.0245 | 98.5 | 97.9 | 51.0-138 | | | 0.640 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0254 | 0.0262 | 102 | 105 | 72.0-124 | | | 3.05 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0239 | 0.0248 | 95.6 | 99.1 | 78.0-120 | | | 3.55 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0194 | 0.0202 | 77.6 | 80.8 | 65.0-126 | | | 4.16 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0230 | 0.0232 | 91.8 | 92.9 | 78.0-122 | | | 1.14 | 20 |
| Dibromomethane | 0.0250 | 0.0218 | 0.0222 | 87.1 | 88.9 | 79.0-120 | | | 1.99 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0251 | 0.0262 | 100 | 105 | 80.0-120 | | | 4.14 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0254 | 0.0257 | 102 | 103 | 72.0-123 | | | 1.32 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0239 | 0.0245 | 95.5 | 97.8 | 77.0-120 | | | 2.45 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0258 | 0.0258 | 103 | 103 | 49.0-155 | | | 0.0100 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0213 | 0.0207 | 85.3 | 82.9 | 68.0-126 | | | 2.90 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0259 | 0.0258 | 104 | 103 | 70.0-128 | | | 0.400 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0257 | 0.0254 | 103 | 101 | 69.0-128 | | | 1.39 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0245 | 0.0250 | 97.8 | 100 | 63.0-131 | | | 2.22 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0232 | 0.0244 | 92.6 | 97.8 | 74.0-123 | | | 5.39 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0243 | 0.0253 | 97.2 | 101 | 72.0-122 | | | 4.18 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0250 | 0.0258 | 99.9 | 103 | 75.0-126 | | | 3.20 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0247 | 0.0250 | 98.8 | 100 | 72.0-130 | | | 1.38 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0235 | 0.0242 | 94.0 | 96.9 | 80.0-121 | | | 3.04 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0254 | 0.0262 | 102 | 105 | 80.0-125 | | | 3.03 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0234 | 0.0251 | 93.6 | 100 | 75.0-129 | | | 6.79 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0231 | 0.0244 | 92.5 | 97.6 | 60.0-129 | | | 5.46 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0257 | 0.0253 | 103 | 101 | 62.0-133 | | | 1.59 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3249538-1 09/14/17 18:29 • (LCSD) R3249538-2 09/14/17 18:46

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0227 | 0.0236 | 90.7 | 94.3 | 77.0-120 | | | 3.83 | 20 |
| n-Hexane | 0.0250 | 0.0223 | 0.0226 | 89.2 | 90.4 | 57.0-125 | | | 1.34 | 20 |
| 2-Hexanone | 0.125 | 0.103 | 0.104 | 82.1 | 83.5 | 61.0-143 | | | 1.68 | 20 |
| Isopropylbenzene | 0.0250 | 0.0239 | 0.0244 | 95.5 | 97.5 | 75.0-120 | | | 2.11 | 20 |
| Iodomethane | 0.125 | 0.128 | 0.129 | 102 | 104 | 67.0-132 | | | 1.44 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0247 | 0.0261 | 99.0 | 104 | 74.0-125 | | | 5.21 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0973 | 0.0946 | 77.8 | 75.7 | 37.0-159 | | | 2.73 | 20 |
| Methylene Chloride | 0.0250 | 0.0248 | 0.0249 | 99.3 | 99.6 | 67.0-123 | | | 0.330 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.120 | 0.123 | 95.9 | 98.7 | 60.0-144 | | | 2.89 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0251 | 0.0256 | 100 | 102 | 66.0-125 | | | 2.05 | 20 |
| Naphthalene | 0.0250 | 0.0239 | 0.0243 | 95.7 | 97.1 | 64.0-125 | | | 1.48 | 20 |
| n-Propylbenzene | 0.0250 | 0.0244 | 0.0253 | 97.7 | 101 | 78.0-120 | | | 3.39 | 20 |
| Styrene | 0.0250 | 0.0250 | 0.0256 | 99.8 | 103 | 78.0-124 | | | 2.72 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0228 | 0.0243 | 91.3 | 97.2 | 74.0-124 | | | 6.25 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0251 | 0.0257 | 100 | 103 | 73.0-120 | | | 2.28 | 20 |
| Tetrachloroethene | 0.0250 | 0.0227 | 0.0238 | 90.9 | 95.2 | 70.0-127 | | | 4.65 | 20 |
| Toluene | 0.0250 | 0.0230 | 0.0240 | 92.0 | 95.8 | 77.0-120 | | | 4.07 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0235 | 0.0244 | 94.0 | 97.7 | 64.0-135 | | | 3.84 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0249 | 0.0248 | 99.6 | 99.1 | 68.0-126 | | | 0.540 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0237 | 0.0244 | 94.9 | 97.7 | 70.0-127 | | | 2.86 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0238 | 0.0241 | 95.1 | 96.3 | 69.0-125 | | | 1.21 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0226 | 0.0233 | 90.5 | 93.1 | 78.0-120 | | | 2.80 | 20 |
| Trichloroethene | 0.0250 | 0.0230 | 0.0233 | 92.1 | 93.4 | 79.0-120 | | | 1.35 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0250 | 0.0259 | 99.9 | 104 | 59.0-136 | | | 3.64 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0249 | 0.0266 | 99.5 | 106 | 73.0-124 | | | 6.58 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0229 | 0.0237 | 91.7 | 94.9 | 76.0-120 | | | 3.47 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0245 | 0.0254 | 97.9 | 102 | 75.0-120 | | | 3.81 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0242 | 0.0255 | 96.8 | 102 | 75.0-120 | | | 5.17 | 20 |
| Vinyl chloride | 0.0250 | 0.0254 | 0.0255 | 102 | 102 | 63.0-134 | | | 0.210 | 20 |
| Xylenes, Total | 0.0750 | 0.0701 | 0.0726 | 93.5 | 96.8 | 77.0-120 | | | 3.50 | 20 |
| Vinyl acetate | 0.125 | 0.144 | 0.142 | 115 | 114 | 58.0-156 | | | 0.890 | 20 |
| *(S) Toluene-d8* | | | | *98.9* | *101* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *104* | *103* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *96.8* | *99.0* | *64.0-132* | | | | |

## L936096-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L936096-01 09/14/17 22:32 • (MS) R3249538-4 09/15/17 01:43 • (MSD) R3249538-5 09/15/17 02:01

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | U | 0.803 | 0.731 | 25.7 | 23.4 | 25 | 10.0-160 | | | 9.34 | 36 |
| Acrylonitrile | 0.125 | U | 1.93 | 1.82 | 61.7 | 58.2 | 25 | 14.0-160 | | | 5.71 | 33 |
| Benzene | 0.0250 | U | 0.446 | 0.450 | 71.3 | 71.9 | 25 | 13.0-146 | | | 0.910 | 27 |
| Bromobenzene | 0.0250 | U | 0.495 | 0.505 | 79.3 | 80.9 | 25 | 10.0-149 | | | 2.00 | 33 |
| Bromodichloromethane | 0.0250 | U | 0.415 | 0.413 | 66.4 | 66.1 | 25 | 15.0-142 | | | 0.380 | 28 |
| Bromoform | 0.0250 | U | 0.339 | 0.349 | 54.2 | 55.9 | 25 | 10.0-147 | | | 3.05 | 31 |
| Bromomethane | 0.0250 | U | 0.285 | 0.298 | 45.6 | 47.6 | 25 | 10.0-160 | | | 4.44 | 32 |
| Bromochloromethane | 0.0250 | U | 0.414 | 0.389 | 66.2 | 62.3 | 25 | 24.0-146 | | | 6.19 | 27 |
| n-Butylbenzene | 0.0250 | U | 0.522 | 0.526 | 83.6 | 84.1 | 25 | 10.0-154 | | | 0.620 | 37 |
| sec-Butylbenzene | 0.0250 | U | 0.511 | 0.518 | 81.8 | 82.9 | 25 | 10.0-151 | | | 1.32 | 36 |
| tert-Butylbenzene | 0.0250 | U | 0.513 | 0.535 | 82.0 | 85.6 | 25 | 10.0-152 | | | 4.24 | 35 |
| Carbon tetrachloride | 0.0250 | U | 0.398 | 0.400 | 63.6 | 63.9 | 25 | 13.0-140 | | | 0.470 | 30 |
| Chlorobenzene | 0.0250 | U | 0.479 | 0.471 | 76.7 | 75.4 | 25 | 10.0-149 | | | 1.66 | 31 |
| Chlorodibromomethane | 0.0250 | U | 0.402 | 0.392 | 64.4 | 62.7 | 25 | 12.0-147 | | | 2.58 | 29 |
| Carbon disulfide | 0.0250 | U | 0.105 | 0.106 | 16.8 | 16.9 | 25 | 10.0-141 | | | 0.490 | 30 |
| Chloroethane | 0.0250 | U | 0.187 | 0.181 | 29.9 | 28.9 | 25 | 10.0-159 | | | 3.55 | 33 |
| Chloroform | 0.0250 | U | 0.503 | 0.482 | 80.5 | 77.1 | 25 | 18.0-148 | | | 4.36 | 28 |
| Chloromethane | 0.0250 | U | 0.276 | 0.286 | 44.1 | 45.7 | 25 | 10.0-146 | | | 3.64 | 29 |
| 2-Chlorotoluene | 0.0250 | U | 0.534 | 0.539 | 85.5 | 86.2 | 25 | 10.0-151 | | | 0.830 | 35 |
| 4-Chlorotoluene | 0.0250 | U | 0.516 | 0.515 | 82.5 | 82.4 | 25 | 10.0-150 | | | 0.130 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | U | 0.382 | 0.395 | 61.2 | 63.2 | 25 | 10.0-149 | | | 3.25 | 34 |
| 1,2-Dibromoethane | 0.0250 | U | 0.443 | 0.438 | 70.8 | 70.0 | 25 | 14.0-145 | | | 1.12 | 28 |
| Dibromomethane | 0.0250 | U | 0.419 | 0.392 | 67.0 | 62.7 | 25 | 18.0-144 | | | 6.65 | 27 |
| 1,2-Dichlorobenzene | 0.0250 | U | 0.545 | 0.531 | 87.2 | 84.9 | 25 | 10.0-153 | | | 2.57 | 34 |
| 1,3-Dichlorobenzene | 0.0250 | U | 0.512 | 0.523 | 81.9 | 83.6 | 25 | 10.0-150 | | | 2.08 | 35 |
| 1,4-Dichlorobenzene | 0.0250 | U | 0.511 | 0.499 | 81.8 | 79.8 | 25 | 10.0-148 | | | 2.37 | 34 |
| Dichlorodifluoromethane | 0.0250 | U | 0.387 | 0.394 | 61.9 | 63.0 | 25 | 10.0-160 | | | 1.85 | 30 |
| 1,1-Dichloroethane | 0.0250 | U | 0.476 | 0.472 | 76.2 | 75.5 | 25 | 19.0-148 | | | 0.970 | 28 |
| 1,2-Dichloroethane | 0.0250 | U | 0.482 | 0.471 | 77.2 | 75.4 | 25 | 17.0-147 | | | 2.34 | 27 |
| trans-1,4-Dichloro-2-butene | 0.0250 | U | 0.454 | 0.429 | 72.6 | 68.6 | 25 | 10.0-160 | | | 5.71 | 40 |
| 1,1-Dichloroethene | 0.0250 | U | 0.320 | 0.326 | 51.3 | 52.2 | 25 | 10.0-150 | | | 1.78 | 31 |
| cis-1,2-Dichloroethene | 0.0250 | U | 0.459 | 0.415 | 73.5 | 66.4 | 25 | 16.0-145 | | | 10.2 | 28 |
| trans-1,2-Dichloroethene | 0.0250 | U | 0.376 | 0.364 | 60.2 | 58.3 | 25 | 11.0-142 | | | 3.28 | 29 |
| 1,2-Dichloropropane | 0.0250 | U | 0.478 | 0.473 | 76.4 | 75.7 | 25 | 17.0-148 | | | 0.930 | 28 |
| 1,1-Dichloropropene | 0.0250 | U | 0.414 | 0.422 | 66.2 | 67.5 | 25 | 10.0-150 | | | 1.97 | 30 |
| 1,3-Dichloropropane | 0.0250 | U | 0.479 | 0.462 | 76.7 | 73.9 | 25 | 16.0-148 | | | 3.61 | 27 |
| cis-1,3-Dichloropropene | 0.0250 | U | 0.490 | 0.477 | 78.4 | 76.3 | 25 | 13.0-150 | | | 2.77 | 28 |
| trans-1,3-Dichloropropene | 0.0250 | U | 0.442 | 0.439 | 70.7 | 70.3 | 25 | 10.0-152 | | | 0.680 | 29 |
| 2,2-Dichloropropane | 0.0250 | U | 0.414 | 0.426 | 66.2 | 68.1 | 25 | 16.0-143 | | | 2.88 | 30 |
| Di-isopropyl ether | 0.0250 | U | 0.488 | 0.464 | 78.1 | 74.2 | 25 | 16.0-149 | | | 5.08 | 28 |

## L936096-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L936096-01 09/14/17 22:32 • (MS) R3249538-4 09/15/17 01:43 • (MSD) R3249538-5 09/15/17 02:01

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | U | 0.462 | 0.444 | 73.9 | 71.0 | 25 | 10.0-147 | | | 4.08 | 31 |
| Hexachloro-1,3-butadiene | 0.0250 | U | 0.487 | 0.480 | 78.0 | 76.7 | 25 | 10.0-154 | | | 1.58 | 40 |
| n-Hexane | 0.0250 | U | 0.224 | 0.218 | 35.8 | 34.9 | 25 | 10.0-140 | | | 2.52 | 34 |
| Isopropylbenzene | 0.0250 | U | 0.483 | 0.496 | 77.3 | 79.4 | 25 | 10.0-147 | | | 2.58 | 33 |
| 2-Hexanone | 0.125 | U | 2.08 | 2.02 | 66.5 | 64.5 | 25 | 12.0-158 | | | 2.97 | 30 |
| p-Isopropyltoluene | 0.0250 | U | 0.523 | 0.532 | 83.7 | 85.2 | 25 | 10.0-156 | | | 1.77 | 37 |
| 2-Butanone (MEK) | 0.125 | U | 1.59 | 1.39 | 50.9 | 44.4 | 25 | 10.0-160 | | | 13.6 | 33 |
| Iodomethane | 0.125 | U | 1.93 | 1.87 | 61.9 | 59.8 | 25 | 10.0-157 | | | 3.36 | 34 |
| Methylene Chloride | 0.0250 | U | 0.440 | 0.395 | 70.4 | 63.3 | 25 | 16.0-139 | | | 10.7 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | U | 2.49 | 2.36 | 79.5 | 75.7 | 25 | 12.0-160 | | | 4.98 | 32 |
| Methyl tert-butyl ether | 0.0250 | U | 0.437 | 0.398 | 69.9 | 63.7 | 25 | 21.0-145 | | | 9.30 | 29 |
| Naphthalene | 0.0250 | U | 0.503 | 0.499 | 80.5 | 79.8 | 25 | 10.0-153 | | | 0.830 | 36 |
| n-Propylbenzene | 0.0250 | U | 0.499 | 0.507 | 79.8 | 81.2 | 25 | 10.0-151 | | | 1.63 | 34 |
| Styrene | 0.0250 | U | 0.511 | 0.514 | 81.8 | 82.3 | 25 | 10.0-155 | | | 0.600 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | U | 0.493 | 0.478 | 78.9 | 76.5 | 25 | 10.0-147 | | | 3.20 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | U | 0.518 | 0.499 | 82.9 | 79.8 | 25 | 10.0-155 | | | 3.77 | 31 |
| Tetrachloroethene | 0.0250 | U | 0.376 | 0.378 | 60.2 | 60.5 | 25 | 10.0-144 | | | 0.380 | 32 |
| Toluene | 0.0250 | U | 0.442 | 0.434 | 70.7 | 69.5 | 25 | 10.0-144 | | | 1.75 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | U | 0.412 | 0.418 | 65.9 | 66.9 | 25 | 10.0-153 | | | 1.40 | 33 |
| 1,2,3-Trichlorobenzene | 0.0250 | U | 0.536 | 0.517 | 85.8 | 82.7 | 25 | 10.0-153 | | | 3.75 | 40 |
| 1,2,4-Trichlorobenzene | 0.0250 | U | 0.497 | 0.509 | 79.6 | 81.4 | 25 | 10.0-156 | | | 2.30 | 40 |
| 1,1,1-Trichloroethane | 0.0250 | U | 0.429 | 0.417 | 68.7 | 66.7 | 25 | 18.0-145 | | | 3.02 | 29 |
| 1,1,2-Trichloroethane | 0.0250 | U | 0.461 | 0.458 | 73.8 | 73.3 | 25 | 12.0-151 | | | 0.570 | 28 |
| Trichloroethene | 0.0250 | U | 0.402 | 0.423 | 64.3 | 67.7 | 25 | 11.0-148 | | | 5.09 | 29 |
| Trichlorofluoromethane | 0.0250 | U | 0.408 | 0.410 | 65.3 | 65.7 | 25 | 10.0-157 | | | 0.510 | 34 |
| 1,2,3-Trichloropropane | 0.0250 | U | 0.537 | 0.528 | 85.9 | 84.4 | 25 | 10.0-154 | | | 1.71 | 32 |
| 1,2,3-Trimethylbenzene | 0.0250 | U | 0.532 | 0.513 | 85.1 | 82.0 | 25 | 10.0-150 | | | 3.69 | 33 |
| 1,2,4-Trimethylbenzene | 0.0250 | U | 0.530 | 0.527 | 84.7 | 84.3 | 25 | 10.0-151 | | | 0.520 | 34 |
| 1,3,5-Trimethylbenzene | 0.0250 | U | 0.510 | 0.502 | 81.6 | 80.3 | 25 | 10.0-150 | | | 1.61 | 33 |
| Vinyl chloride | 0.0250 | U | 0.314 | 0.315 | 50.2 | 50.4 | 25 | 10.0-150 | | | 0.450 | 29 |
| Xylenes, Total | 0.0750 | U | 1.43 | 1.38 | 76.3 | 73.7 | 25 | 10.0-150 | | | 3.49 | 31 |
| Vinyl acetate | 0.125 | U | 2.51 | 2.49 | 80.3 | 79.7 | 25 | 10.0-160 | | | 0.840 | 40 |
| *(S) Toluene-d8* | | | | | *103* | *100* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *94.1* | *93.2* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *95.5* | *99.9* | | *64.0-132* | | | | |

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |

# ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.



## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

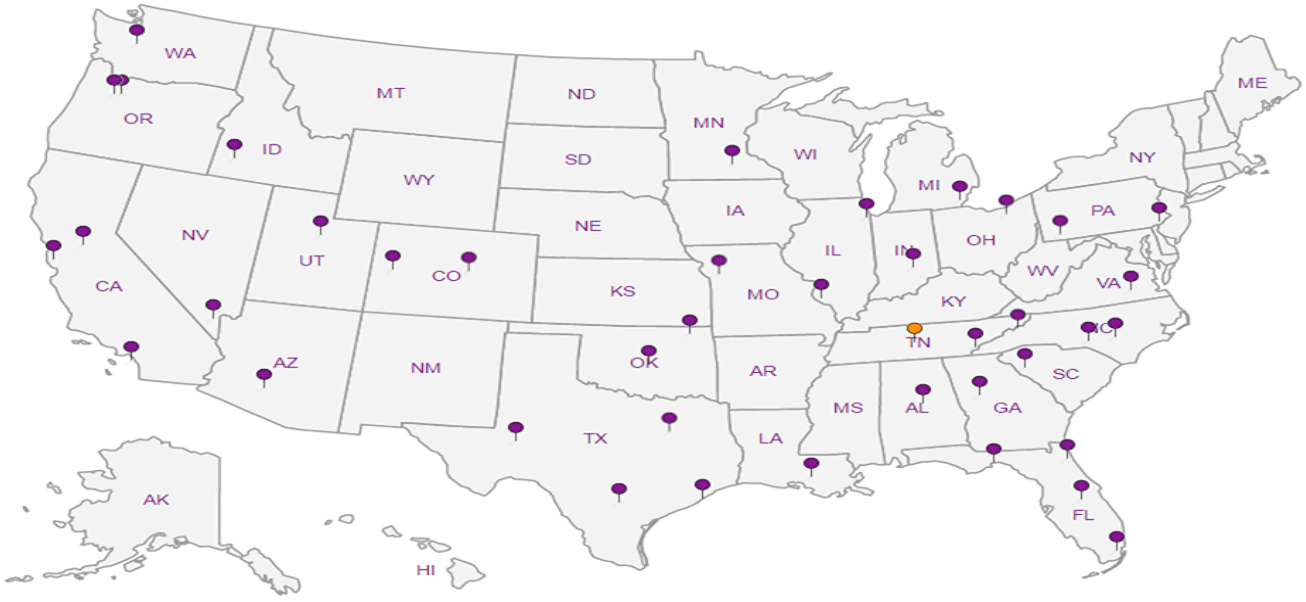
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: **Bill Haldeman**

Email To: **bhaldeman@pesenv.com**

Project Description: **American Linen Project**

City/State Collected: SEATTLE, WA

Phone: **206-529-3980**
Fax: **206-529-3985**

Client Project # 1413.001.02.602

Lab Project # **PESENVSWA-ALP**

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

**Rush?** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Ctrs | NWTPHGX 2ozClr-NoPres | TS 4ozClr-NoPres / 2ozClr-No Pres. | V826DC 40ml/NaHSO4/Syr/MeOH | | | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-212-85 | GRAB | SS | 85 | 9/11/17 | 1100 | 5 | X | X | X | | | | | | | | | -01 |
| B-214-115 | " | " | 115 | " | 1110 | 4 | | X | X | | | | | | | | | 02 |
| B-214-120 | " | " | 120 | " | 1120 | 3 | | X | X | | | | | | | | | 03 |
| B-212-95 | " | " | 95 | " | 1200 | 5 | X | X | X | | | | | | | | | 04 |
| B-212-100 | " | " | 100 | " | 1240 | 5 | X | X | X | | | | | | | | | 05 |
| MW-138-15 | " | " | 15 | 9/12/17 | 1015 | 5 | | | | | | | | | | | | 06 |
| B-215-15 | " | " | 15 | " | 1030 | 5 | | | | | | | | | | | | 07 |
| MW-138-25 | " | " | 25 | " | 1115 | 4 | | | | | | | | | | | | 08 |
| B-215-25 | " | " | 25 | " | 1125 | 5 | | | | | | | | | | | | 09 |
| B-215-35 | " | " | 35 | " | 1140 | 5 | | | | | | | | | | | | 10 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: MW

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Relinquished by : (Signature)

Date: 9/12/17 Time: 1410

Received by: (Signature)

Relinquished by : (Signature)

Date: 9/12/17 Time: 1410

Received by: (Signature)

Relinquished by : (Signature)

Date: Time:

Received for lab by: (Signature)

Trip Blank Received: Yes / (No) HCL / MeoH TBR

Temp: 3.3 °C mLL 50 Bottles Received: 8

Date: 9-13-17 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: Y __N
Preservation Correct/Checked: __Y __N

Chain of Custody Page 1 of ___

ESC LABORATORY SCIENCES a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# LG36064

E151

Acctnum: PESENV...
Template: T126584
Prelogin: P615998
TSR: 110 - Brian Ford
PB CM 8-31-17

Shipped Via: FedEx Ground

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): Kaysha Springstead

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 40mlAmb HCl | TS 2ozClr-NoPres | V8260C 40ml/NaHS04/Syr/MeOH | V8260C 40mlAmb-HCl | VOCs Screen 2ozClr-NoPres | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-138-35 | GRAB | SS | 35 | 9/12/17 | 1140 | 5 | | X | X | | X | | -11 |
| B-215-45 | | SS | 45 | | 1205 | 5 | | X | X | | X | | 12 |
| B-215-55 | | SS | 55 | | 1250 | 5 | | X | X | | X | | 13 |
| MW-138-45 | | SS | 45 | | 1255 | 5 | | X | X | | X | | 14 |
| MW-138-56 | | SS | 35 | | 1335 | 5 | | X | X | | X | | 15 |
| B-215-65 | | SS | 65 | | 1350 | 5 | | X | X | | X | | 16 |
| ~~TRIPBLANK-091217 B-215-75~~ | ↓ | SS | 75 | ↓ | 1400 | 5 | | X | X | | X | | 17 |
| TRIPBLANK-091217 | NA | ~~NASS~~ | NA | 3/27/17 | NA | ~~1~~ | | ~~X~~ | ~~X~~ | X | ~~X~~ | | 18 |
| | | SS | | | | 5 | | X | X | | X | | |
| | | SS | | | | 5 | | X | X | | X | | |

Chain of Custody Page 2 of 2

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L936064

Table #

Acctnum: PESENVSWA
Template: T122259
Prelogin: P596188
TSR: 110 - Brian Ford
PB:

Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ___ Temp ___
Flow ___ Other ___

Samples returned via:
__ UPS __ FedEx __ Courier __

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 9-12-17 | 1410 | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) |

Trip Blank Received: (Yes) No
HCL / MeoH
TBR

Temp: 3.3 °C corr 3.0 Bottles Received: 8

Date: 9-13-17 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

# MEMORANDUM

**TO:** Project File **DATE:** October 13 and 16, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** September 11-12, 2017 – Soil Samples

**LAB:** ESC Lab ID L936064

---

Seventeen (17) soil samples and a trip blank were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 11-12, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology; and
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L936064. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L936064 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

### Sample Collection and Preservation

Samples were collected on September 11-12, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 3.3 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

### Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. All holding time criteria were met with the following exceptions:

- Holding time criteria were not met for soil samples B-212-85, B-212-95, and B-212-100. These soil samples were collected on September 11, 2017 and measured for percent solids on September 19, 2017 which is slightly beyond the recommended seven day hold. No action is taken in this case as samples were appropriately preserved and it is unlikely that the holding time exceedances significantly impact the sample results.

### Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, bromoform, and 2-butanone (MEK) associated with analytical batch WG1020560 (analyzed on September 14, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for chloromethane, trans-1,4-dichloro-2-butene, and di-isopropyl ether associated with analytical batch WG1030390 (analyzed on September 18, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, bromobenzene, chloroethane, chloromethane, trans-1,4-dichloro-2-butene, n-hexane, 2-butanone (MEK), 1,2,4-trimethylbenzene, and 1,2,3-trimethylbenzene associated with analytical batch WG1020390 (analyzed on September 14, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

**Method Blank Results**

*USEPA Method 8260C:*
Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at or above the reported detection limits (RDLs).

*NWTPH-Gx Method:*
Laboratory method blank was included with the analytical batch per method requirement. The target analyte (gasoline) was not detected at or above the RDL.

*Total Solids by SM 2540 G 2011:*
Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

**Trip Blank Results**

*USEPA Method 8260C:*
A trip blank was collected and submitted for VOC analysis. The target analytes were not detected in the trip blank at or above the RDL.

**Field, Rinsate, or Equipment Blank Results**

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate samples were not collected.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*NWTPH-Gx Method:*
Laboratory duplicate samples were not analyzed. Refer to LCS/LCSDs and MS/MSDs results for precision data on soils and waters.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on client samples B-212-85 B-214-115 and B-215-55. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blank are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters.

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPDs for the control analyte (gasoline) are within the laboratory control criteria for soils.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on a non-client sample

within one of the analytical batches. Refer to LCS/LCSD results for accuracy and precision on water data and soil data associated with Batch WG1020390. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for soils.

*NWTPH-Gx Method:*
MS/MSDs were analyzed by the NWTPH-Gx method on a non-client samples within the analytical batch. The MS/MSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for soils.

**Other Quality Control Issues**

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Sample B-212-85 was not reanalyzed at a lower dilution for hexachloro-1,3-butadiene as there were no low level sodium bisulfite vials remaining for these samples. No action was taken other than to note this.

**Compound Identification and Quantitation Limits**

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

**Data Assessment**

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.1 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0385 | 0.113 | 1 | 09/15/2017 00:57 | WG1020572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *90.9* | | | *77.0-120* | | *09/15/2017 00:57* | WG1020572 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U UJ | J0 | 0.0113 | 0.0567 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Acrylonitrile | U | | 0.00203 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Benzene | U | | 0.000306 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Bromobenzene | U | | 0.000322 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Bromodichloromethane | U | | 0.000288 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Bromochloromethane | U | | 0.000443 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Bromoform | U UJ | J0 | 0.000481 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Bromomethane | U | | 0.00152 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 | |
| n-Butylbenzene | U | | 0.000293 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| sec-Butylbenzene | U | | 0.000228 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| tert-Butylbenzene | U | | 0.000234 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Carbon disulfide | 0.000454 J | J | 0.000251 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Carbon tetrachloride | U | | 0.000372 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Chlorobenzene | U | | 0.000241 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Chlorodibromomethane | U | | 0.000423 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Chloroethane | U | | 0.00107 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Chloroform | U | | 0.000260 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Chloromethane | U | | 0.000425 | 0.00284 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 2-Chlorotoluene | U | | 0.000342 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 4-Chlorotoluene | U | | 0.000272 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 1,2-Dibromoethane | U | | 0.000389 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Dibromomethane | U | | 0.000433 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 1,2-Dichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 1,3-Dichlorobenzene | U | | 0.000271 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Dichlorodifluoromethane | U | | 0.000809 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 1,1-Dichloroethane | U | | 0.000226 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 1,2-Dichloroethane | U | | 0.000301 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 1,1-Dichloroethene | U | | 0.000344 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| cis-1,2-Dichloroethene | U | | 0.000267 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| trans-1,2-Dichloroethene | U | | 0.000300 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 1,2-Dichloropropane | U | | 0.000406 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 1,1-Dichloropropene | U | | 0.000360 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 1,3-Dichloropropane | U | | 0.000235 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| cis-1,3-Dichloropropene | U | | 0.000297 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| trans-1,3-Dichloropropene | U | | 0.000303 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| trans-1,4-Dichloro-2-butene | U | | 0.000883 | 0.00284 | 1 | 09/14/2017 21:58 | WG1020560 | |
| 2,2-Dichloropropane | U | | 0.000317 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Di-isopropyl ether | U | | 0.000281 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Ethylbenzene | U | | 0.000337 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 | |
| Hexachloro-1,3-butadiene | U | | 0.00970 | 0.0284 | 25 | 09/15/2017 14:05 | WG1020560 | |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 | JC 10/16/17 |
| n-Hexane | U | | 0.000329 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 | |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| Iodomethane | U | | | 0.00287 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Isopropylbenzene | U | | | 0.000276 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| p-Isopropyltoluene | U | | | 0.000231 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 2-Butanone (MEK) | U | UJ | J0 | 0.00531 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Methylene Chloride | U | | | 0.00113 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| 4-Methyl-2-pentanone (MIBK) | U | | | 0.00213 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Methyl tert-butyl ether | U | | | 0.000241 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Naphthalene | U | | | 0.00113 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| n-Propylbenzene | U | | | 0.000234 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Styrene | U | | | 0.000266 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,1,1,2-Tetrachloroethane | U | | | 0.000300 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,1,2,2-Tetrachloroethane | U | | | 0.000414 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,1,2-Trichlorotrifluoroethane | U | | | 0.000414 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Tetrachloroethene | U | | | 0.000313 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Toluene | U | | | 0.000492 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2,3-Trichlorobenzene | U | | | 0.000347 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2,4-Trichlorobenzene | U | | | 0.000440 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,1,1-Trichloroethane | U | | | 0.000325 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,1,2-Trichloroethane | U | | | 0.000314 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Trichloroethene | U | | | 0.000317 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Trichlorofluoromethane | U | | | 0.000433 | 0.00567 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2,3-Trichloropropane | U | | | 0.000841 | 0.00284 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2,4-Trimethylbenzene | U | | | 0.000239 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,2,3-Trimethylbenzene | U | | | 0.000326 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| 1,3,5-Trimethylbenzene | U | | | 0.000302 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Vinyl acetate | U | | | 0.00271 | 0.0113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Vinyl chloride | U | | | 0.000330 | 0.00113 | 1 | 09/14/2017 21:58 | WG1020560 |
| Xylenes, Total | U | | | 0.000792 | 0.00340 | 1 | 09/14/2017 21:58 | WG1020560 |
| *(S) Toluene-d8* | *94.3* | | | | *80.0-120* | | *09/14/2017 21:58* | WG1020560 |
| *(S) Toluene-d8* | *94.2* | | | | *80.0-120* | | *09/15/2017 14:05* | WG1020560 |
| *(S) Dibromofluoromethane* | *94.7* | | | | *74.0-131* | | *09/15/2017 14:05* | WG1020560 |
| *(S) Dibromofluoromethane* | *109* | | | | *74.0-131* | | *09/14/2017 21:58* | WG1020560 |
| *(S) 4-Bromofluorobenzene* | *98.0* | | | | *64.0-132* | | *09/14/2017 21:58* | WG1020560 |
| *(S) 4-Bromofluorobenzene* | *103* | | | | *64.0-132* | | *09/15/2017 14:05* | WG1020560 |

Sample Narrative:

L936064-01 WG1020560: Elevated RL. Reported from MEOH vial. Bisulfates used in previous runs.

JC 10/16/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.0 | | 1 | 09/16/2017 10:30 | WG1021103 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | | mg/kg | mg/kg | | date / time | |
| Acetone | U | UJ | J0 | 0.0122 | 0.0610 | 1 | 09/14/2017 22:15 | WG1020560 |
| Acrylonitrile | U | | | 0.00218 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Benzene | U | | | 0.000329 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Bromobenzene | U | | | 0.000346 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Bromodichloromethane | U | | | 0.000310 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Bromochloromethane | U | | | 0.000476 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| Bromoform | U | UJ | J0 | 0.000517 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Bromomethane | U | | | 0.00163 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| n-Butylbenzene | U | | | 0.000315 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| sec-Butylbenzene | U | | | 0.000245 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| tert-Butylbenzene | U | | | 0.000251 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Carbon disulfide | U | | | 0.000270 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Carbon tetrachloride | U | | | 0.000400 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Chlorobenzene | U | | | 0.000259 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Chlorodibromomethane | U | | | 0.000455 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Chloroethane | U | | | 0.00115 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| Chloroform | U | | | 0.000279 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| Chloromethane | U | | | 0.000457 | 0.00305 | 1 | 09/14/2017 22:15 | WG1020560 |
| 2-Chlorotoluene | U | | | 0.000367 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 4-Chlorotoluene | U | | | 0.000293 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2-Dibromo-3-Chloropropane | U | | | 0.00128 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2-Dibromoethane | U | | | 0.000418 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Dibromomethane | U | | | 0.000466 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2-Dichlorobenzene | U | | | 0.000372 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,3-Dichlorobenzene | U | | | 0.000292 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,4-Dichlorobenzene | U | | | 0.000276 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Dichlorodifluoromethane | U | | | 0.000870 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1-Dichloroethane | U | | | 0.000243 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2-Dichloroethane | U | | | 0.000323 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1-Dichloroethene | U | | | 0.000370 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| cis-1,2-Dichloroethene | U | | | 0.000287 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| trans-1,2-Dichloroethene | U | | | 0.000322 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2-Dichloropropane | U | | | 0.000437 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1-Dichloropropene | U | | | 0.000387 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,3-Dichloropropane | U | | | 0.000252 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| cis-1,3-Dichloropropene | U | | | 0.000320 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| trans-1,3-Dichloropropene | U | | | 0.000326 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| trans-1,4-Dichloro-2-butene | U | | | 0.000949 | 0.00305 | 1 | 09/14/2017 22:15 | WG1020560 |
| 2,2-Dichloropropane | U | | | 0.000340 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Di-isopropyl ether | U | | | 0.000302 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Ethylbenzene | U | | | 0.000362 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Hexachloro-1,3-butadiene | U | | | 0.000417 | 0.00122 | 1 | 09/15/2017 14:25 | WG1020560 |
| 2-Hexanone | U | | | 0.00167 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |
| n-Hexane | U | | | 0.000354 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Iodomethane | U | | | 0.00309 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Isopropylbenzene | U | | | 0.000296 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| p-Isopropyltoluene | U | | | 0.000249 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 2-Butanone (MEK) | U | UJ | J0 | 0.00571 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Methylene Chloride | U | | | 0.00122 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| 4-Methyl-2-pentanone (MIBK) | U | | | 0.00229 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000259 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Naphthalene | U | | 0.00122 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| n-Propylbenzene | U | | 0.000251 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Styrene | U | | 0.000285 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000322 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000445 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000445 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Tetrachloroethene | U | | 0.000337 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Toluene | U | | 0.000529 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2,3-Trichlorobenzene | U | | 0.000373 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2,4-Trichlorobenzene | U | | 0.000473 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1,1-Trichloroethane | U | | 0.000349 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,1,2-Trichloroethane | U | | 0.000338 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Trichloroethene | U | | 0.000340 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Trichlorofluoromethane | U | | 0.000466 | 0.00610 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2,3-Trichloropropane | U | | 0.000904 | 0.00305 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2,4-Trimethylbenzene | U | | 0.000257 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,2,3-Trimethylbenzene | U | | 0.000350 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| 1,3,5-Trimethylbenzene | U | | 0.000324 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Vinyl acetate | U | | 0.00292 | 0.0122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Vinyl chloride | U | | 0.000355 | 0.00122 | 1 | 09/14/2017 22:15 | WG1020560 |
| Xylenes, Total | U | | 0.000851 | 0.00366 | 1 | 09/14/2017 22:15 | WG1020560 |
| *(S) Toluene-d8* | *95.3* | | | *80.0-120* | | *09/14/2017 22:15* | WG1020560 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/15/2017 14:25* | WG1020560 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/14/2017 22:15* | WG1020560 |
| *(S) Dibromofluoromethane* | *92.5* | | | *74.0-131* | | *09/15/2017 14:25* | WG1020560 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/15/2017 14:25* | WG1020560 |
| *(S) 4-Bromofluorobenzene* | *96.5* | | | *64.0-132* | | *09/14/2017 22:15* | WG1020560 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.7 | | 1 | 09/16/2017 10:30 | WG1021103 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | | 0.0118 | 0.0590 | 1 | 09/18/2017 16:01 | WG1020390 |
| Acrylonitrile | U | | | 0.00211 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Benzene | U | | | 0.000319 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Bromobenzene | U | | | 0.000335 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Bromodichloromethane | U | | | 0.000300 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Bromochloromethane | U | | | 0.000461 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| Bromoform | U | | | 0.000501 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Bromomethane | U | | | 0.00158 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| n-Butylbenzene | U | | | 0.000305 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| sec-Butylbenzene | U | | | 0.000237 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| tert-Butylbenzene | U | | | 0.000243 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Carbon disulfide | U | | | 0.000261 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Carbon tetrachloride | U | | | 0.000387 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Chlorobenzene | U | | | 0.000250 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Chlorodibromomethane | U | | | 0.000440 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Chloroethane | U | | | 0.00112 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| Chloroform | U | | | 0.000270 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| Chloromethane | U | UJ | J0 | 0.000443 | 0.00295 | 1 | 09/18/2017 16:01 | WG1020390 |
| 2-Chlorotoluene | U | | | 0.000355 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 4-Chlorotoluene | U | | | 0.000283 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | | 0.00124 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2-Dibromoethane | U | | | 0.000405 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Dibromomethane | U | | | 0.000451 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2-Dichlorobenzene | U | | | 0.000360 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,3-Dichlorobenzene | U | | | 0.000282 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,4-Dichlorobenzene | U | | | 0.000267 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Dichlorodifluoromethane | U | | | 0.000842 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1-Dichloroethane | U | | | 0.000235 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2-Dichloroethane | U | | | 0.000313 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1-Dichloroethene | U | | | 0.000358 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| cis-1,2-Dichloroethene | U | | | 0.000278 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| trans-1,2-Dichloroethene | U | | | 0.000312 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2-Dichloropropane | U | | | 0.000423 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1-Dichloropropene | U | | | 0.000374 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,3-Dichloropropane | U | | | 0.000244 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| cis-1,3-Dichloropropene | U | | | 0.000309 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| trans-1,3-Dichloropropene | U | | | 0.000315 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | UJ | J0 | 0.000919 | 0.00295 | 1 | 09/18/2017 16:01 | WG1020390 |
| 2,2-Dichloropropane | U | | | 0.000329 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Di-isopropyl ether | U | UJ | J0 | 0.000293 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Ethylbenzene | U | | | 0.000351 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | | 0.000404 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 2-Hexanone | U | | | 0.00162 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |
| n-Hexane | U | | | 0.000342 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Iodomethane | U | | | 0.00299 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Isopropylbenzene | U | | | 0.000287 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| p-Isopropyltoluene | U | | | 0.000241 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 2-Butanone (MEK) | U | | | 0.00553 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Methylene Chloride | U | | | 0.00118 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | | 0.00222 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000250 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Naphthalene | U | | 0.00118 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Styrene | U | | 0.000276 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000312 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000431 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000431 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Tetrachloroethene | U | | 0.000326 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Toluene | U | | 0.000513 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000361 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000458 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000338 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000327 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Trichloroethene | U | | 0.000329 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000451 | 0.00590 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000875 | 0.00295 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | | 0.000339 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000314 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Vinyl chloride | U | | 0.000344 | 0.00118 | 1 | 09/18/2017 16:01 | WG1020390 |
| Xylenes, Total | U | | 0.000824 | 0.00354 | 1 | 09/18/2017 16:01 | WG1020390 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/18/2017 16:01* | WG1020390 |
| *(S) Dibromofluoromethane* | *99.9* | | | *74.0-131* | | *09/18/2017 16:01* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *99.0* | | | *64.0-132* | | *09/18/2017 16:01* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.3 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0422 | 0.125 | 1 | 09/15/2017 01:19 | WG1020572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.0* | | | *77.0-120* | | *09/15/2017 01:19* | WG1020572 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | | mg/kg | mg/kg | | date / time | |
| Acetone | U | UJ | J0 | 0.0131 | 0.0654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Acrylonitrile | U | | | 0.00234 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Benzene | U | | | 0.000354 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Bromobenzene | U | UJ | J0 | 0.000371 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Bromodichloromethane | U | | | 0.000333 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Bromochloromethane | U | | | 0.000511 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Bromoform | U | | | 0.000554 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Bromomethane | U | | | 0.00176 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| n-Butylbenzene | U | | | 0.000337 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| sec-Butylbenzene | U | | | 0.000263 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| tert-Butylbenzene | U | | | 0.000269 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Carbon disulfide | U | | | 0.000289 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Carbon tetrachloride | U | | | 0.000428 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Chlorobenzene | U | | | 0.000278 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Chlorodibromomethane | U | | | 0.000488 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Chloroethane | U | UJ | J0 | 0.00124 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Chloroform | U | | | 0.000299 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Chloromethane | U | UJ | J0 | 0.000491 | 0.00327 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 2-Chlorotoluene | U | | | 0.000394 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 4-Chlorotoluene | U | | | 0.000314 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | | 0.00137 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2-Dibromoethane | U | | | 0.000448 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Dibromomethane | U | | | 0.000499 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2-Dichlorobenzene | U | | | 0.000399 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,3-Dichlorobenzene | U | | | 0.000313 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,4-Dichlorobenzene | U | | | 0.000295 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Dichlorodifluoromethane | U | | | 0.000933 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1-Dichloroethane | U | | | 0.000260 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2-Dichloroethane | U | | | 0.000346 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1-Dichloroethene | U | | | 0.000396 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| cis-1,2-Dichloroethene | U | | | 0.000308 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| trans-1,2-Dichloroethene | U | | | 0.000345 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2-Dichloropropane | U | | | 0.000468 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1-Dichloropropene | U | | | 0.000415 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,3-Dichloropropane | U | | | 0.000270 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| cis-1,3-Dichloropropene | U | | | 0.000342 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| trans-1,3-Dichloropropene | U | | | 0.000349 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | UJ | J0 | 0.00102 | 0.00327 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 2,2-Dichloropropane | U | | | 0.000365 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Di-isopropyl ether | U | | | 0.000324 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Ethylbenzene | U | | | 0.000389 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | | 0.000447 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 2-Hexanone | U | | | 0.00179 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| n-Hexane | U | UJ | J0 | 0.000379 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00331 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Isopropylbenzene | U | | 0.000318 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000267 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 2-Butanone (MEK) | U | UJ J0 | 0.00611 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Methylene Chloride | U | | 0.00131 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00245 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Methyl tert-butyl ether | U | | 0.000278 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Naphthalene | U | | 0.00131 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| n-Propylbenzene | U | | 0.000269 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Styrene | U | | 0.000306 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000345 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000477 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000477 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Tetrachloroethene | U | | 0.000361 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Toluene | U | | 0.000568 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000400 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000507 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000374 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000362 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Trichloroethene | U | | 0.000365 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000499 | 0.00654 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000969 | 0.00327 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | UJ J0 | 0.000276 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | UJ J0 | 0.000375 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000347 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Vinyl acetate | U | | 0.00313 | 0.0131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Vinyl chloride | U | | 0.000381 | 0.00131 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| Xylenes, Total | U | | 0.000913 | 0.00392 | 1.05 | 09/14/2017 16:15 | WG1020390 |
| *(S) Toluene-d8* | *94.9* | | | *80.0-120* | | *09/14/2017 16:15* | WG1020390 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/14/2017 16:15* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *89.2* | | | *64.0-132* | | *09/14/2017 16:15* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.9 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | U | | 0.0409 | 0.121 | 1 | 09/15/2017 01:41 | WG1020572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *90.8* | | | *77.0-120* | | *09/15/2017 01:41* | WG1020572 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | | mg/kg | mg/kg | | date / time | |
| Acetone | U | UJ | J0 | 0.0121 | 0.0603 | 1 | 09/14/2017 16:36 | WG1020390 |
| Acrylonitrile | U | | | 0.00216 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Benzene | U | | | 0.000326 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Bromobenzene | U | UJ | J0 | 0.000343 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Bromodichloromethane | U | | | 0.000307 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Bromochloromethane | U | | | 0.000471 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| Bromoform | U | | | 0.000512 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Bromomethane | U | | | 0.00162 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| n-Butylbenzene | U | | | 0.000311 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| sec-Butylbenzene | U | | | 0.000243 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| tert-Butylbenzene | U | | | 0.000249 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Carbon disulfide | U | | | 0.000267 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Carbon tetrachloride | U | | | 0.000396 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Chlorobenzene | U | | | 0.000256 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Chlorodibromomethane | U | | | 0.000450 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Chloroethane | U | UJ | J0 | 0.00114 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| Chloroform | U | | | 0.000276 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| Chloromethane | U | UJ | J0 | 0.000453 | 0.00302 | 1 | 09/14/2017 16:36 | WG1020390 |
| 2-Chlorotoluene | U | | | 0.000363 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 4-Chlorotoluene | U | | | 0.000290 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | | 0.00127 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2-Dibromoethane | U | | | 0.000414 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Dibromomethane | U | | | 0.000461 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2-Dichlorobenzene | U | | | 0.000368 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,3-Dichlorobenzene | U | | | 0.000288 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,4-Dichlorobenzene | U | | | 0.000273 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Dichlorodifluoromethane | U | | | 0.000860 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1-Dichloroethane | U | | | 0.000240 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2-Dichloroethane | U | | | 0.000320 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1-Dichloroethene | U | | | 0.000366 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| cis-1,2-Dichloroethene | U | | | 0.000284 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| trans-1,2-Dichloroethene | U | | | 0.000319 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2-Dichloropropane | U | | | 0.000432 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1-Dichloropropene | U | | | 0.000383 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,3-Dichloropropane | U | | | 0.000250 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| cis-1,3-Dichloropropene | U | | | 0.000316 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| trans-1,3-Dichloropropene | U | | | 0.000322 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | UJ | J0 | 0.000939 | 0.00302 | 1 | 09/14/2017 16:36 | WG1020390 |
| 2,2-Dichloropropane | U | | | 0.000337 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Di-isopropyl ether | U | | | 0.000299 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Ethylbenzene | U | | | 0.000358 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | | 0.000413 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 2-Hexanone | U | | | 0.00165 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |
| n-Hexane | U | UJ | J0 | 0.000350 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Iodomethane | U | | 0.00305 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Isopropylbenzene | U | | 0.000293 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000246 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 2-Butanone (MEK) | U | UJ J0 | 0.00565 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Methylene Chloride | U | | 0.00121 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00227 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Methyl tert-butyl ether | U | | 0.000256 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Naphthalene | U | | 0.00121 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| n-Propylbenzene | U | | 0.000249 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Styrene | U | | 0.000282 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000319 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000440 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000440 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Tetrachloroethene | U | | 0.000333 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Toluene | U | | 0.000524 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000369 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000468 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000345 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000334 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Trichloroethene | U | | 0.000337 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000461 | 0.00603 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000894 | 0.00302 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | UJ J0 | 0.000255 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | UJ J0 | 0.000346 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000321 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Vinyl acetate | U | | 0.00288 | 0.0121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Vinyl chloride | U | | 0.000351 | 0.00121 | 1 | 09/14/2017 16:36 | WG1020390 |
| Xylenes, Total | U | | 0.000842 | 0.00362 | 1 | 09/14/2017 16:36 | WG1020390 |
| *(S) Toluene-d8* | *99.0* | | | *80.0-120* | | *09/14/2017 16:36* | WG1020390 |
| *(S) Dibromofluoromethane* | *97.6* | | | *74.0-131* | | *09/14/2017 16:36* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *83.9* | | | *64.0-132* | | *09/14/2017 16:36* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.1 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0119 | 0.0594 | 1 | 09/14/2017 16:56 | WG1020390 |
| Acrylonitrile | U | | 0.00213 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Benzene | U | | 0.000321 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Bromobenzene | U UJ | J0 | 0.000338 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Bromodichloromethane | U | | 0.000302 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Bromochloromethane | U | | 0.000464 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| Bromoform | U | | 0.000504 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Bromomethane | U | | 0.00159 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| n-Butylbenzene | U | | 0.000307 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| sec-Butylbenzene | U | | 0.000239 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| tert-Butylbenzene | U | | 0.000245 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Carbon disulfide | U | | 0.000263 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Carbon tetrachloride | U | | 0.000390 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Chlorobenzene | U | | 0.000252 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Chlorodibromomethane | U | | 0.000443 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Chloroethane | U UJ | J0 | 0.00112 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| Chloroform | U | | 0.000272 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| Chloromethane | U UJ | J0 | 0.000446 | 0.00297 | 1 | 09/14/2017 16:56 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000358 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000285 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000408 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Dibromomethane | U | | 0.000454 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000363 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000284 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000269 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000848 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000237 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000315 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000360 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000279 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000314 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000426 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000377 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000246 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000311 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000317 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000925 | 0.00297 | 1 | 09/14/2017 16:56 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000332 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Di-isopropyl ether | U | | 0.000295 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Ethylbenzene | U | | 0.000353 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000407 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 2-Hexanone | U | | 0.00163 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |
| n-Hexane | U UJ | J0 | 0.000345 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Iodomethane | U | | 0.00301 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Isopropylbenzene | U | | 0.000289 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000243 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00556 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Methylene Chloride | U | | 0.00119 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00223 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000252 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Naphthalene | U | | 0.00119 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| n-Propylbenzene | U | | 0.000245 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Styrene | U | | 0.000278 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000314 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000434 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000434 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Tetrachloroethene | U | | 0.000328 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Toluene | U | | 0.000516 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000364 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000461 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000340 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000329 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Trichloroethene | U | | 0.000332 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000454 | 0.00594 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000881 | 0.00297 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | UJ J0 | 0.000251 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | UJ J0 | 0.000341 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000316 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Vinyl acetate | U | | 0.00284 | 0.0119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Vinyl chloride | U | | 0.000346 | 0.00119 | 1 | 09/14/2017 16:56 | WG1020390 |
| Xylenes, Total | U | | 0.000830 | 0.00357 | 1 | 09/14/2017 16:56 | WG1020390 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/14/2017 16:56* | WG1020390 |
| *(S) Dibromofluoromethane* | *97.2* | | | *74.0-131* | | *09/14/2017 16:56* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *84.8* | | | *64.0-132* | | *09/14/2017 16:56* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.2 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U UJ | J0 | 0.0108 | 0.0542 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Acrylonitrile | U | | 0.00194 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Benzene | U | | 0.000293 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Bromobenzene | U UJ | J0 | 0.000308 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Bromochloromethane | U | | 0.000423 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Bromoform | U | | 0.000460 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Bromomethane | U | | 0.00145 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 | |
| n-Butylbenzene | U | | 0.000280 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| sec-Butylbenzene | U | | 0.000218 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Carbon disulfide | U | | 0.000240 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Carbon tetrachloride | U | | 0.000356 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Chlorobenzene | U | | 0.000230 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Chlorodibromomethane | U | | 0.000405 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Chloroethane | U UJ | J0 | 0.00103 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Chloroform | U | | 0.000248 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Chloromethane | U UJ | J0 | 0.000407 | 0.00271 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 2-Chlorotoluene | U | | 0.000326 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 4-Chlorotoluene | U | | 0.000260 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 1,2-Dibromoethane | U | | 0.000372 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Dibromomethane | U | | 0.000414 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 1,2-Dichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 1,3-Dichlorobenzene | U | | 0.000259 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 1,4-Dichlorobenzene | U | | 0.000245 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Dichlorodifluoromethane | U | | 0.000773 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 1,1-Dichloroethane | U | | 0.000216 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 1,2-Dichloroethane | U | | 0.000287 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 1,1-Dichloroethene | U | | 0.000329 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| cis-1,2-Dichloroethene | U | | 0.000255 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| trans-1,2-Dichloroethene | U | | 0.000286 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 1,2-Dichloropropane | U | | 0.000388 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 1,1-Dichloropropene | U | | 0.000344 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| cis-1,3-Dichloropropene | U | | 0.000284 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| trans-1,3-Dichloropropene | U | | 0.000290 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000844 | 0.00271 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 2,2-Dichloropropane | U | | 0.000303 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Di-isopropyl ether | U | | 0.000269 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Ethylbenzene | U | | 0.000322 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Hexachloro-1,3-butadiene | U | | 0.000371 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 2-Hexanone | U | | 0.00149 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| n-Hexane | 0.000333 J | J J0 | 0.000314 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Iodomethane | U | | 0.00274 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| Isopropylbenzene | U | | 0.000264 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 2-Butanone (MEK) | U UJ | J0 | 0.00508 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 | JC 10/16/17 |
| Methylene Chloride | U | | 0.00108 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 | |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00204 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 | |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000230 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Naphthalene | U | | 0.00108 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Styrene | U | | 0.000254 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000286 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000396 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000396 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Tetrachloroethene | U | | 0.000299 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Toluene | U | | 0.000471 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000332 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000421 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000310 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000300 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Trichloroethene | U | | 0.000303 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000414 | 0.00542 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000804 | 0.00271 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | UJ J0 | 0.000229 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | UJ J0 | 0.000311 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Vinyl acetate | U | | 0.00259 | 0.0108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Vinyl chloride | U | | 0.000316 | 0.00108 | 1 | 09/14/2017 17:17 | WG1020390 |
| Xylenes, Total | U | | 0.000757 | 0.00325 | 1 | 09/14/2017 17:17 | WG1020390 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/14/2017 17:17* | WG1020390 |
| *(S) Dibromofluoromethane* | *99.1* | | | *74.0-131* | | *09/14/2017 17:17* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *84.6* | | | *64.0-132* | | *09/14/2017 17:17* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.9 | | 1 | 09/16/2017 10:30 | WG1021103 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0115 | 0.0576 | 1 | 09/14/2017 17:38 | WG1020390 |
| Acrylonitrile | U | | 0.00206 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Benzene | U | | 0.000311 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Bromobenzene | U UJ | J0 | 0.000327 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Bromodichloromethane | U | | 0.000292 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Bromochloromethane | U | | 0.000449 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| Bromoform | U | | 0.000488 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Bromomethane | U | | 0.00154 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| n-Butylbenzene | U | | 0.000297 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| sec-Butylbenzene | U | | 0.000231 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| tert-Butylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Carbon disulfide | U | | 0.000254 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Carbon tetrachloride | U | | 0.000378 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Chlorobenzene | U | | 0.000244 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Chlorodibromomethane | U | | 0.000429 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Chloroethane | U UJ | J0 | 0.00109 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| Chloroform | U | | 0.000264 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| Chloromethane | U UJ | J0 | 0.000432 | 0.00288 | 1 | 09/14/2017 17:38 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000347 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000276 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000395 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Dibromomethane | U | | 0.000440 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000351 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000275 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000260 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000821 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000229 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000305 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000349 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000271 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000304 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000412 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000365 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000238 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000302 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000307 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000896 | 0.00288 | 1 | 09/14/2017 17:38 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000321 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Di-isopropyl ether | U | | 0.000285 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Ethylbenzene | U | | 0.000342 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000394 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |
| n-Hexane | U UJ | J0 | 0.000334 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Iodomethane | U | | 0.00291 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00539 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Methylene Chloride | U | | 0.00115 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00216 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000244 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Naphthalene | U | | 0.00115 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| n-Propylbenzene | U | | 0.000237 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Styrene | U | | 0.000269 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000304 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000420 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000420 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Tetrachloroethene | U | | 0.000318 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Toluene | U | | 0.000500 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000447 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000329 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000319 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Trichloroethene | U | | 0.000321 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000440 | 0.00576 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000853 | 0.00288 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | UJ J0 | 0.000243 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | UJ J0 | 0.000330 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000306 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Vinyl acetate | U | | 0.00275 | 0.0115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Vinyl chloride | U | | 0.000335 | 0.00115 | 1 | 09/14/2017 17:38 | WG1020390 |
| Xylenes, Total | U | | 0.000804 | 0.00345 | 1 | 09/14/2017 17:38 | WG1020390 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/14/2017 17:38* | WG1020390 |
| *(S) Dibromofluoromethane* | *90.4* | | | *74.0-131* | | *09/14/2017 17:38* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *88.5* | | | *64.0-132* | | *09/14/2017 17:38* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.4 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0107 | 0.0535 | 1 | 09/14/2017 17:58 | WG1020390 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Benzene | U | | 0.000289 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Bromobenzene | U UJ | J0 | 0.000304 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Bromochloromethane | U | | 0.000417 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| Bromoform | U | | 0.000454 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Bromomethane | U | | 0.00143 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Carbon disulfide | U | | 0.000237 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Carbon tetrachloride | U | | 0.000351 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Chloroethane | U UJ | J0 | 0.00101 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| Chloroform | U | | 0.000245 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| Chloromethane | U UJ | J0 | 0.000401 | 0.00268 | 1 | 09/14/2017 17:58 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000367 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Dibromomethane | U | | 0.000409 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000763 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000252 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000283 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000280 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000833 | 0.00268 | 1 | 09/14/2017 17:58 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000299 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Di-isopropyl ether | U | | 0.000265 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000366 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |
| n-Hexane | U UJ | J0 | 0.000310 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00501 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Methylene Chloride | U | | 0.00107 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Naphthalene | U | | 0.00107 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000283 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000391 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000391 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Tetrachloroethene | 0.00480 | | 0.000295 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Toluene | U | | 0.000464 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000415 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000296 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Trichloroethene | U | | 0.000299 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000409 | 0.00535 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000793 | 0.00268 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | UJ J0 | 0.000226 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | UJ J0 | 0.000307 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Vinyl chloride | U | | 0.000311 | 0.00107 | 1 | 09/14/2017 17:58 | WG1020390 |
| Xylenes, Total | U | | 0.000747 | 0.00321 | 1 | 09/14/2017 17:58 | WG1020390 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/14/2017 17:58* | WG1020390 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/14/2017 17:58* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *84.6* | | | *64.0-132* | | *09/14/2017 17:58* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.8 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0118 | 0.0589 | 1 | 09/18/2017 16:20 | WG1020390 |
| Acrylonitrile | U | | 0.00211 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Benzene | U | | 0.000318 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Bromobenzene | U | | 0.000335 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Bromodichloromethane | U | | 0.000299 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Bromochloromethane | U | | 0.000460 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| Bromoform | U | | 0.000500 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Bromomethane | U | | 0.00158 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| n-Butylbenzene | U | | 0.000304 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| sec-Butylbenzene | U | | 0.000237 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| tert-Butylbenzene | U | | 0.000243 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Carbon disulfide | U | | 0.000261 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Carbon tetrachloride | U | | 0.000387 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Chlorobenzene | U | | 0.000250 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Chlorodibromomethane | U | | 0.000440 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Chloroethane | U | | 0.00112 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| Chloroform | U | | 0.000270 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| Chloromethane | U | UJ J0 | 0.000442 | 0.00295 | 1 | 09/18/2017 16:20 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000355 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000283 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000404 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Dibromomethane | U | | 0.000450 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000360 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000282 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000266 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000841 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000235 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000312 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000357 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| cis-1,2-Dichloroethene | 0.0620 | | 0.000277 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000311 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000422 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000374 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000244 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000309 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000315 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | UJ J0 | 0.000917 | 0.00295 | 1 | 09/18/2017 16:20 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000329 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Di-isopropyl ether | U | UJ J0 | 0.000292 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Ethylbenzene | U | | 0.000350 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000403 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 2-Hexanone | U | | 0.00162 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |
| n-Hexane | 0.000447 | j J | 0.000342 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Iodomethane | U | | 0.00298 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Isopropylbenzene | U | | 0.000286 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000241 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 2-Butanone (MEK) | U | | 0.00552 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Methylene Chloride | U | | 0.00118 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00222 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000250 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Naphthalene | U | | 0.00118 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Styrene | U | | 0.000276 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000311 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000430 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000430 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Tetrachloroethene | 0.0277 | | 0.000325 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Toluene | U | | 0.000512 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000361 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000457 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000337 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000327 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Trichloroethene | 0.00195 | | 0.000329 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000450 | 0.00589 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000874 | 0.00295 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | | 0.000338 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000314 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Vinyl chloride | U | | 0.000343 | 0.00118 | 1 | 09/18/2017 16:20 | WG1020390 |
| Xylenes, Total | U | | 0.000823 | 0.00354 | 1 | 09/18/2017 16:20 | WG1020390 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/18/2017 16:20* | WG1020390 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/18/2017 16:20* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/18/2017 16:20* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.6 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0107 | 0.0534 | 1 | 09/14/2017 18:40 | WG1020390 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Benzene | U | | 0.000288 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Bromobenzene | U UJ | J0 | 0.000303 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Bromodichloromethane | U | | 0.000271 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Bromochloromethane | U | | 0.000417 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| Bromoform | U | | 0.000453 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Bromomethane | U | | 0.00143 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Carbon disulfide | 0.000435 J | J | 0.000236 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Carbon tetrachloride | U | | 0.000350 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Chloroethane | U UJ | J0 | 0.00101 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| Chloroform | U | | 0.000245 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| Chloromethane | U UJ | J0 | 0.000401 | 0.00267 | 1 | 09/14/2017 18:40 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000256 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000366 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Dibromomethane | U | | 0.000408 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000255 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000762 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000283 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000251 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000282 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000280 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000285 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000831 | 0.00267 | 1 | 09/14/2017 18:40 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000298 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Di-isopropyl ether | U | | 0.000265 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Ethylbenzene | U | | 0.000317 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000365 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 2-Hexanone | U | | 0.00146 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |
| n-Hexane | U UJ | J0 | 0.000310 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Iodomethane | U | | 0.00270 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00500 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Methylene Chloride | U | | 0.00107 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Naphthalene | U | | 0.00107 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000282 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000390 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000390 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Tetrachloroethene | U | | 0.000295 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Toluene | U | | 0.000464 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000415 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000296 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Trichloroethene | U | | 0.000298 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000408 | 0.00534 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000792 | 0.00267 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | UJ J0 | 0.000225 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | UJ J0 | 0.000307 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000284 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Vinyl acetate | U | | 0.00255 | 0.0107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Vinyl chloride | U | | 0.000311 | 0.00107 | 1 | 09/14/2017 18:40 | WG1020390 |
| Xylenes, Total | U | | 0.000746 | 0.00321 | 1 | 09/14/2017 18:40 | WG1020390 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/14/2017 18:40* | WG1020390 |
| *(S) Dibromofluoromethane* | *98.9* | | | *74.0-131* | | *09/14/2017 18:40* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *86.5* | | | *64.0-132* | | *09/14/2017 18:40* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.0 | | 1 | 09/19/2017 07:43 | WG1021488 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0106 | 0.0532 | 1 | 09/14/2017 19:00 | WG1020390 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Benzene | U | | 0.000287 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Bromobenzene | U UJ | J0 | 0.000302 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Bromodichloromethane | U | | 0.000270 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Bromochloromethane | U | | 0.000415 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| Bromoform | U | | 0.000451 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Bromomethane | U | | 0.00143 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| n-Butylbenzene | U | | 0.000275 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| sec-Butylbenzene | U | | 0.000214 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| tert-Butylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Carbon disulfide | 0.000807 j | J | 0.000235 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Carbon tetrachloride | U | | 0.000349 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Chlorobenzene | U | | 0.000226 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Chlorodibromomethane | U | | 0.000397 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Chloroethane | U UJ | J0 | 0.00101 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| Chloroform | U | | 0.000244 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| Chloromethane | U UJ | J0 | 0.000399 | 0.00266 | 1 | 09/14/2017 19:00 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000320 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000365 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Dibromomethane | U | | 0.000406 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000254 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000240 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000759 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000282 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000322 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000250 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000281 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000381 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000337 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000284 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000828 | 0.00266 | 1 | 09/14/2017 19:00 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Di-isopropyl ether | U | | 0.000264 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Ethylbenzene | U | | 0.000316 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000364 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 2-Hexanone | U | | 0.00146 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |
| n-Hexane | 0.00329 J | J J0 | 0.000309 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Iodomethane | U | | 0.00269 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Isopropylbenzene | U | | 0.000259 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00498 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Methylene Chloride | U | | 0.00106 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |



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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Naphthalene | U | | 0.00106 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| n-Propylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Styrene | U | | 0.000249 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000388 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000388 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Tetrachloroethene | U | | 0.000294 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Toluene | U | | 0.000462 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000326 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000413 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000304 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Trichloroethene | U | | 0.000297 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000406 | 0.00532 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000788 | 0.00266 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | UJ J0 | 0.000225 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | UJ J0 | 0.000305 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000283 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Vinyl acetate | U | | 0.00254 | 0.0106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Vinyl chloride | U | | 0.000310 | 0.00106 | 1 | 09/14/2017 19:00 | WG1020390 |
| Xylenes, Total | U | | 0.000743 | 0.00319 | 1 | 09/14/2017 19:00 | WG1020390 |
| *(S) Toluene-d8* | *98.0* | | | *80.0-120* | | *09/14/2017 19:00* | WG1020390 |
| *(S) Dibromofluoromethane* | *98.0* | | | *74.0-131* | | *09/14/2017 19:00* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *85.7* | | | *64.0-132* | | *09/14/2017 19:00* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.3 | | 1 | 09/19/2017 09:14 | WG1021489 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U UJ | J0 | 0.0111 | 0.0554 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Acrylonitrile | U | | 0.00198 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Benzene | U | | 0.000299 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Bromobenzene | U UJ | J0 | 0.000315 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Bromodichloromethane | U | | 0.000281 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Bromochloromethane | U | | 0.000432 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Bromoform | U | | 0.000470 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Bromomethane | U | | 0.00148 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 | |
| n-Butylbenzene | U | | 0.000286 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| tert-Butylbenzene | U | | 0.000228 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Carbon disulfide | 0.000688 J | J | 0.000245 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Carbon tetrachloride | U | | 0.000363 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Chlorobenzene | U | | 0.000235 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Chlorodibromomethane | U | | 0.000413 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Chloroethane | U UJ | J0 | 0.00105 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Chloroform | U | | 0.000254 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Chloromethane | U UJ | J0 | 0.000415 | 0.00277 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 2-Chlorotoluene | U | | 0.000333 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 4-Chlorotoluene | U | | 0.000266 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 1,2-Dibromoethane | U | | 0.000380 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Dibromomethane | U | | 0.000423 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 1,2-Dichlorobenzene | U | | 0.000338 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 1,3-Dichlorobenzene | U | | 0.000265 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 1,4-Dichlorobenzene | U | | 0.000250 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Dichlorodifluoromethane | U | | 0.000790 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 1,1-Dichloroethane | U | | 0.000220 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 1,2-Dichloroethane | U | | 0.000293 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 1,1-Dichloroethene | U | | 0.000336 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| cis-1,2-Dichloroethene | U | | 0.000260 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| trans-1,2-Dichloroethene | U | | 0.000292 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 1,2-Dichloropropane | U | | 0.000396 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 1,1-Dichloropropene | U | | 0.000351 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 1,3-Dichloropropane | U | | 0.000229 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| cis-1,3-Dichloropropene | U | | 0.000290 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| trans-1,3-Dichloropropene | U | | 0.000296 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| trans-1,4-Dichloro-2-butene | U J | J0 | 0.000862 | 0.00277 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 2,2-Dichloropropane | U | | 0.000309 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Di-isopropyl ether | U | | 0.000275 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Ethylbenzene | U | | 0.000329 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Hexachloro-1,3-butadiene | U | | 0.000379 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 2-Hexanone | U | | 0.00152 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| n-Hexane | 0.000446 J | J J0 | 0.000321 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Iodomethane | U | | 0.00280 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Isopropylbenzene | U | | 0.000269 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| p-Isopropyltoluene | U | | 0.000226 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| 2-Butanone (MEK) | U UJ | J0 | 0.00518 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 | |
| Methylene Chloride | U | | 0.00111 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 | JC 10/16/17 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00208 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 | |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000235 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Naphthalene | U | | 0.00111 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 |
| n-Propylbenzene | U | | 0.000228 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Styrene | U | | 0.000259 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000292 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000404 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000404 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Tetrachloroethene | U | | 0.000306 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Toluene | U | | 0.000481 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000430 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000317 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000307 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Trichloroethene | U | | 0.000309 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000423 | 0.00554 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000821 | 0.00277 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | UJ J0 | 0.000234 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | UJ J0 | 0.000318 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000295 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Vinyl acetate | U | | 0.00265 | 0.0111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Vinyl chloride | U | | 0.000322 | 0.00111 | 1 | 09/14/2017 19:21 | WG1020390 |
| Xylenes, Total | U | | 0.000773 | 0.00332 | 1 | 09/14/2017 19:21 | WG1020390 |
| *(S) Toluene-d8* | *100* | | | *80.0-120* | | *09/14/2017 19:21* | WG1020390 |
| *(S) Dibromofluoromethane* | *99.4* | | | *74.0-131* | | *09/14/2017 19:21* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *88.1* | | | *64.0-132* | | *09/14/2017 19:21* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.6 | | 1 | 09/19/2017 09:14 | WG1021489 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0106 | 0.0529 | 1 | 09/14/2017 19:41 | WG1020390 |
| Acrylonitrile | U | | 0.00189 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Benzene | U | | 0.000285 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Bromobenzene | U UJ | J0 | 0.000300 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Bromodichloromethane | U | | 0.000268 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Bromochloromethane | U | | 0.000412 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| Bromoform | U | | 0.000448 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Bromomethane | U | | 0.00142 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| n-Butylbenzene | U | | 0.000273 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| sec-Butylbenzene | U | | 0.000212 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| tert-Butylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Carbon disulfide | 0.000913 J | J | 0.000234 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Carbon tetrachloride | U | | 0.000347 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Chlorobenzene | U | | 0.000224 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Chlorodibromomethane | U | | 0.000394 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Chloroethane | U UJ | J0 | 0.00100 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| Chloroform | U | | 0.000242 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| Chloromethane | U UJ | J0 | 0.000396 | 0.00264 | 1 | 09/14/2017 19:41 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000318 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000254 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000363 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Dibromomethane | U | | 0.000404 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000322 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000253 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000239 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000754 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000210 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000280 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000320 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000248 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000279 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000378 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000335 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000219 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000277 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000282 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000822 | 0.00264 | 1 | 09/14/2017 19:41 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000295 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Di-isopropyl ether | U | | 0.000262 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Ethylbenzene | U | | 0.000314 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000362 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 2-Hexanone | U | | 0.00145 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |
| n-Hexane | U UJ | J0 | 0.000307 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Iodomethane | U | | 0.00267 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Isopropylbenzene | U | | 0.000257 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000216 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00495 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Methylene Chloride | U | | 0.00106 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00199 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000224 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Naphthalene | U | | 0.00106 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| n-Propylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Styrene | U | | 0.000247 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000279 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000386 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000386 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Tetrachloroethene | U | | 0.000292 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Toluene | U | | 0.000459 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000323 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000410 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000302 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000293 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Trichloroethene | U | | 0.000295 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000404 | 0.00529 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000783 | 0.00264 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | UJ J0 | 0.000223 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | UJ J0 | 0.000303 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000281 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Vinyl acetate | U | | 0.00253 | 0.0106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Vinyl chloride | U | | 0.000308 | 0.00106 | 1 | 09/14/2017 19:41 | WG1020390 |
| Xylenes, Total | U | | 0.000738 | 0.00317 | 1 | 09/14/2017 19:41 | WG1020390 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/14/2017 19:41* | WG1020390 |
| *(S) Dibromofluoromethane* | *95.4* | | | *74.0-131* | | *09/14/2017 19:41* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *87.0* | | | *64.0-132* | | *09/14/2017 19:41* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.9 | | 1 | 09/19/2017 09:14 | WG1021489 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0112 | 0.0562 | 1 | 09/14/2017 20:02 | WG1020390 |
| Acrylonitrile | U | | 0.00201 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Benzene | U | | 0.000304 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Bromobenzene | U UJ | J0 | 0.000319 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Bromodichloromethane | U | | 0.000286 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Bromochloromethane | U | | 0.000439 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| Bromoform | U | | 0.000477 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Bromomethane | U | | 0.00151 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| n-Butylbenzene | U | | 0.000290 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| sec-Butylbenzene | U | | 0.000226 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| tert-Butylbenzene | U | | 0.000232 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Carbon disulfide | 0.00276 | | 0.000249 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Carbon tetrachloride | U | | 0.000369 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Chlorobenzene | U | | 0.000238 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Chlorodibromomethane | U | | 0.000420 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Chloroethane | U UJ | J0 | 0.00106 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| Chloroform | U | | 0.000258 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| Chloromethane | 0.00179 J | J J0 | 0.000422 | 0.00281 | 1 | 09/14/2017 20:02 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000339 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000270 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000386 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Dibromomethane | U | | 0.000430 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000343 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000269 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000254 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000802 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000224 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000298 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000341 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000264 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000297 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000403 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000357 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000233 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000295 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000300 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000875 | 0.00281 | 1 | 09/14/2017 20:02 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000314 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Di-isopropyl ether | U | | 0.000279 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Ethylbenzene | U | | 0.000334 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000385 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 2-Hexanone | U | | 0.00154 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |
| n-Hexane | 0.00365 J | J J0 | 0.000326 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Iodomethane | U | | 0.00285 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Isopropylbenzene | U | | 0.000273 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000229 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00526 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Methylene Chloride | U | | 0.00112 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00211 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000238 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Naphthalene | U | | 0.00112 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| n-Propylbenzene | U | | 0.000232 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Styrene | U | | 0.000263 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000297 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000411 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000411 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Tetrachloroethene | U | | 0.000310 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Toluene | U | | 0.000488 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000344 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000436 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000322 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000312 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Trichloroethene | U | | 0.000314 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000430 | 0.00562 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000833 | 0.00281 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | UJ J0 | 0.000237 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | UJ J0 | 0.000323 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000299 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Vinyl acetate | U | | 0.00269 | 0.0112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Vinyl chloride | U | | 0.000327 | 0.00112 | 1 | 09/14/2017 20:02 | WG1020390 |
| Xylenes, Total | U | | 0.000785 | 0.00337 | 1 | 09/14/2017 20:02 | WG1020390 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/14/2017 20:02* | WG1020390 |
| *(S) Dibromofluoromethane* | *98.6* | | | *74.0-131* | | *09/14/2017 20:02* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *84.3* | | | *64.0-132* | | *09/14/2017 20:02* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.4 | | 1 | 09/19/2017 09:14 | WG1021489 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | | mg/kg | mg/kg | | date / time | |
| Acetone | U | UJ | J0 | 0.286 | 1.43 | 25 | 09/14/2017 20:43 | WG1020390 |
| Acrylonitrile | U | | | 0.0512 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Benzene | U | | | 0.00772 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Bromobenzene | U | UJ | J0 | 0.00812 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Bromodichloromethane | U | | | 0.00726 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Bromochloromethane | U | | | 0.0112 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| Bromoform | U | | | 0.0121 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Bromomethane | U | | | 0.0383 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| n-Butylbenzene | U | | | 0.00738 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| sec-Butylbenzene | U | | | 0.00574 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| tert-Butylbenzene | U | | | 0.00589 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Carbon disulfide | U | | | 0.00631 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Carbon tetrachloride | U | | | 0.00938 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Chlorobenzene | U | | | 0.00606 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Chlorodibromomethane | U | | | 0.0107 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Chloroethane | U | UJ | J0 | 0.0270 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| Chloroform | U | | | 0.00654 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| Chloromethane | U | UJ | J0 | 0.0107 | 0.0715 | 25 | 09/14/2017 20:43 | WG1020390 |
| 2-Chlorotoluene | U | | | 0.00860 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 4-Chlorotoluene | U | | | 0.00686 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | | 0.0300 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2-Dibromoethane | U | | | 0.00981 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Dibromomethane | U | | | 0.0109 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2-Dichlorobenzene | U | | | 0.00872 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,3-Dichlorobenzene | U | | | 0.00684 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,4-Dichlorobenzene | U | | | 0.00646 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Dichlorodifluoromethane | U | | | 0.0204 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1-Dichloroethane | U | | | 0.00570 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2-Dichloroethane | U | | | 0.00757 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1-Dichloroethene | 0.0242 | j | J | 0.00867 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| cis-1,2-Dichloroethene | 1.55 | | | 0.00673 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| trans-1,2-Dichloroethene | U | | | 0.00755 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2-Dichloropropane | U | | | 0.0102 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1-Dichloropropene | U | | | 0.00906 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,3-Dichloropropane | U | | | 0.00592 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| cis-1,3-Dichloropropene | U | | | 0.00749 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| trans-1,3-Dichloropropene | U | | | 0.00764 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U | UJ | J0 | 0.0222 | 0.0715 | 25 | 09/14/2017 20:43 | WG1020390 |
| 2,2-Dichloropropane | U | | | 0.00798 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Di-isopropyl ether | U | | | 0.00709 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Ethylbenzene | U | | | 0.00849 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | | 0.00978 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 2-Hexanone | U | | | 0.0391 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |
| n-Hexane | U | UJ | J0 | 0.00829 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Iodomethane | U | | | 0.0723 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Isopropylbenzene | U | | | 0.00695 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| p-Isopropyltoluene | U | | | 0.00583 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 2-Butanone (MEK) | U | UJ | J0 | 0.134 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Methylene Chloride | U | | | 0.0286 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | | 0.0538 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.00606 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Naphthalene | U | | 0.0286 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| n-Propylbenzene | U | | 0.00589 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Styrene | U | | 0.00669 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00755 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0104 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0104 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Tetrachloroethene | 11.1 | | 0.0789 | 0.286 | 250 | 09/18/2017 16:40 | WG1020390 |
| Toluene | U | | 0.0124 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.00875 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.0111 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.00818 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.00791 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Trichloroethene | 1.02 | | 0.00798 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Trichlorofluoromethane | U | | 0.0109 | 0.143 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.0212 | 0.0715 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | UJ J0 | 0.00604 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | UJ J0 | 0.00821 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.00761 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Vinyl acetate | U | | 0.0684 | 0.286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Vinyl chloride | U | | 0.00833 | 0.0286 | 25 | 09/14/2017 20:43 | WG1020390 |
| Xylenes, Total | U | | 0.0199 | 0.0858 | 25 | 09/14/2017 20:43 | WG1020390 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/14/2017 20:43* | WG1020390 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *09/18/2017 16:40* | WG1020390 |
| *(S) Dibromofluoromethane* | *91.8* | | | *74.0-131* | | *09/14/2017 20:43* | WG1020390 |
| *(S) Dibromofluoromethane* | *95.0* | | | *74.0-131* | | *09/18/2017 16:40* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/18/2017 16:40* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *90.9* | | | *64.0-132* | | *09/14/2017 20:43* | WG1020390 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.7 | | 1 | 09/19/2017 09:14 | WG1021489 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0110 | 0.0551 | 1 | 09/14/2017 20:23 | WG1020390 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Benzene | U | | 0.000298 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Bromobenzene | U UJ | J0 | 0.000313 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Bromochloromethane | U | | 0.000430 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| Bromoform | U | | 0.000468 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Bromomethane | U | | 0.00148 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| n-Butylbenzene | U | | 0.000285 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| sec-Butylbenzene | U | | 0.000222 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Carbon disulfide | 0.000331 j | J | 0.000244 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Carbon tetrachloride | U | | 0.000362 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Chlorodibromomethane | U | | 0.000411 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Chloroethane | U UJ | J0 | 0.00104 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| Chloroform | U | | 0.000253 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| Chloromethane | U UJ | J0 | 0.000414 | 0.00276 | 1 | 09/14/2017 20:23 | WG1020390 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 4-Chlorotoluene | U | | 0.000265 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2-Dibromoethane | U | | 0.000378 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Dibromomethane | U | | 0.000421 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2-Dichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,3-Dichlorobenzene | U | | 0.000264 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,4-Dichlorobenzene | U | | 0.000249 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Dichlorodifluoromethane | U | | 0.000786 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2-Dichloroethane | U | | 0.000292 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1-Dichloroethene | U | | 0.000334 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| cis-1,2-Dichloroethene | U | | 0.000259 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| trans-1,2-Dichloroethene | U | | 0.000291 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2-Dichloropropane | U | | 0.000395 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1-Dichloropropene | U | | 0.000350 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| trans-1,3-Dichloropropene | U | | 0.000294 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000858 | 0.00276 | 1 | 09/14/2017 20:23 | WG1020390 |
| 2,2-Dichloropropane | U | | 0.000308 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Di-isopropyl ether | U | | 0.000273 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Ethylbenzene | U | | 0.000328 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Hexachloro-1,3-butadiene | U | | 0.000377 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |
| n-Hexane | U UJ | J0 | 0.000320 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 2-Butanone (MEK) | U UJ | J0 | 0.00516 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Methylene Chloride | U | | 0.00110 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00207 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |

JC 10/16/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000234 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Naphthalene | U | | 0.00110 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000291 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000403 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000403 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Tetrachloroethene | U | | 0.000304 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Toluene | U | | 0.000479 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2,3-Trichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2,4-Trichlorobenzene | U | | 0.000428 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1,1-Trichloroethane | U | | 0.000315 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,1,2-Trichloroethane | U | | 0.000305 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Trichloroethene | U | | 0.000308 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Trichlorofluoromethane | U | | 0.000421 | 0.00551 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2,3-Trichloropropane | U | | 0.000817 | 0.00276 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2,4-Trimethylbenzene | U | UJ J0 | 0.000233 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,2,3-Trimethylbenzene | U | UJ J0 | 0.000316 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| 1,3,5-Trimethylbenzene | U | | 0.000293 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Vinyl acetate | U | | 0.00264 | 0.0110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Vinyl chloride | U | | 0.000321 | 0.00110 | 1 | 09/14/2017 20:23 | WG1020390 |
| Xylenes, Total | U | | 0.000770 | 0.00331 | 1 | 09/14/2017 20:23 | WG1020390 |
| *(S) Toluene-d8* | *97.7* | | | *80.0-120* | | *09/14/2017 20:23* | WG1020390 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/14/2017 20:23* | WG1020390 |
| *(S) 4-Bromofluorobenzene* | *89.1* | | | *64.0-132* | | *09/14/2017 20:23* | WG1020390 |

JC 10/16/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1.05 | 25.0 | 1 | 09/14/2017 12:47 | WG1020322 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/14/2017 12:47 | WG1020322 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/14/2017 12:47 | WG1020322 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |

JC 10/16/17

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/14/2017 12:47 | WG1020322 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/14/2017 12:47 | WG1020322 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/14/2017 12:47 | WG1020322 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/14/2017 12:47* | WG1020322 |
| *(S) Dibromofluoromethane* | *99.6* | | | *76.0-123* | | *09/14/2017 12:47* | WG1020322 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *80.0-120* | | *09/14/2017 12:47* | WG1020322 |

JC 10/16/17

# ANALYTICAL REPORT

September 21, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L936401 |
| Samples Received: | 09/14/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-910-90 L936401-01 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Karsten Springstead | 09/13/17 09:30 | 09/14/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021766 | 1 | 09/19/17 12:48 | 09/19/17 13:04 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020800 | 1 | 09/13/17 09:30 | 09/15/17 15:04 | ACG |

## B-215-85 L936401-02 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Karsten Springstead | 09/13/17 10:15 | 09/14/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021766 | 1 | 09/19/17 12:48 | 09/19/17 13:04 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020800 | 1 | 09/13/17 10:15 | 09/15/17 15:24 | ACG |

## MW-138-65 L936401-03 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Karsten Springstead | 09/13/17 10:30 | 09/14/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021766 | 1 | 09/19/17 12:48 | 09/19/17 13:04 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020800 | 1 | 09/13/17 10:30 | 09/15/17 15:43 | ACG |

## B-909-115 L936401-04 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Karsten Springstead | 09/13/17 11:30 | 09/14/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021766 | 1 | 09/19/17 12:48 | 09/19/17 13:04 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020800 | 1 | 09/13/17 11:30 | 09/20/17 15:30 | DWR |

## MW-138-75 L936401-05 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Karsten Springstead | 09/13/17 11:15 | 09/14/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021766 | 1 | 09/19/17 12:48 | 09/19/17 13:04 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020800 | 1 | 09/13/17 11:15 | 09/15/17 16:23 | ACG |

## MW-138-85 L936401-06 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Karsten Springstead | 09/13/17 11:40 | 09/14/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021766 | 1 | 09/19/17 12:48 | 09/19/17 13:04 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020800 | 1 | 09/13/17 11:40 | 09/15/17 16:42 | ACG |

## MW-138-95 L936401-07 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Karsten Springstead | 09/13/17 13:05 | 09/14/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021766 | 1 | 09/19/17 12:48 | 09/19/17 13:04 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020800 | 1 | 09/13/17 13:05 | 09/15/17 17:02 | ACG |

## MW-138-105 L936401-08 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Karsten Springstead | 09/13/17 12:55 | 09/14/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021766 | 1 | 09/19/17 12:48 | 09/19/17 13:04 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020800 | 1 | 09/13/17 12:55 | 09/15/17 17:22 | ACG |

## B-215-95 L936401-09 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Karsten Springstead | 09/13/17 10:50 | 09/14/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1021766 | 1 | 09/19/17 12:48 | 09/19/17 13:04 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1020800 | 1 | 09/13/17 10:50 | 09/15/17 17:41 | ACG |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.3 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0579 | 1 | 09/15/2017 15:04 | WG1020800 |
| Acrylonitrile | U | | 0.00207 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Bromobenzene | U | | 0.000329 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Bromochloromethane | U | J6 | 0.000452 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| Bromoform | U | | 0.000491 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Bromomethane | U | J6 | 0.00155 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Carbon disulfide | 0.000476 | J J6 | 0.000256 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Carbon tetrachloride | U | | 0.000380 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Chlorodibromomethane | U | | 0.000432 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Chloroethane | U | J6 | 0.00110 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| Chloroform | U | | 0.000265 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| Chloromethane | U | J6 | 0.000435 | 0.00290 | 1 | 09/15/2017 15:04 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000397 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Dichlorodifluoromethane | U | J3 J6 | 0.000826 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1-Dichloroethene | U | J6 | 0.000351 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000272 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| trans-1,2-Dichloroethene | U | J6 | 0.000306 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000415 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1-Dichloropropene | U | J6 | 0.000367 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000901 | 0.00290 | 1 | 09/15/2017 15:04 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000323 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Di-isopropyl ether | U | | 0.000287 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Ethylbenzene | U | | 0.000344 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000396 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |
| n-Hexane | 0.000629 | J J3 J6 | 0.000336 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Iodomethane | U | J6 | 0.00293 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00542 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Methylene Chloride | U | J6 | 0.00116 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Naphthalene | U | | 0.00116 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000423 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000423 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Toluene | U | | 0.000503 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000321 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Trichloroethene | U | | 0.000323 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000859 | 0.00290 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Vinyl chloride | U | J6 | 0.000337 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Xylenes, Total | U | | 0.000809 | 0.00348 | 1 | 09/15/2017 15:04 | WG1020800 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/15/2017 15:04* | WG1020800 |
| *(S) Dibromofluoromethane* | *97.8* | | | *74.0-131* | | *09/15/2017 15:04* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/15/2017 15:04* | WG1020800 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.0 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0121 | 0.0603 | 1 | 09/15/2017 15:24 | WG1020800 |
| Acrylonitrile | U | | 0.00216 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Benzene | U | | 0.000325 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Bromobenzene | U | | 0.000342 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Bromodichloromethane | U | | 0.000306 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Bromochloromethane | U | | 0.000470 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| Bromoform | U | | 0.000511 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Bromomethane | U | | 0.00162 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| n-Butylbenzene | U | | 0.000311 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| sec-Butylbenzene | U | | 0.000242 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| tert-Butylbenzene | U | | 0.000248 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Carbon disulfide | U | | 0.000266 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Carbon tetrachloride | U | | 0.000395 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Chlorobenzene | U | | 0.000256 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Chlorodibromomethane | U | | 0.000450 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Chloroethane | U | | 0.00114 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| Chloroform | U | | 0.000276 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| Chloromethane | U | | 0.000452 | 0.00301 | 1 | 09/15/2017 15:24 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000363 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000289 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00127 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000413 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Dibromomethane | U | | 0.000461 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000368 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000288 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000272 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000860 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000240 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000319 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000365 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000283 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000318 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000432 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000382 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000250 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000316 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000322 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000938 | 0.00301 | 1 | 09/15/2017 15:24 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000336 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Di-isopropyl ether | U | | 0.000299 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Ethylbenzene | U | | 0.000358 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000412 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 2-Hexanone | U | | 0.00165 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |
| n-Hexane | U | | 0.000350 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Iodomethane | U | | 0.00305 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Isopropylbenzene | U | | 0.000293 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000246 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00564 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Methylene Chloride | U | | 0.00121 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00227 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000256 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Naphthalene | U | | 0.00121 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| n-Propylbenzene | U | | 0.000248 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Styrene | U | | 0.000282 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000318 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000440 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000440 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Tetrachloroethene | U | | 0.000333 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Toluene | U | | 0.000523 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000369 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000468 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000345 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000334 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Trichloroethene | U | | 0.000336 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000461 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000893 | 0.00301 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000254 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000346 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000321 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Vinyl acetate | U | | 0.00288 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Vinyl chloride | U | | 0.000351 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Xylenes, Total | U | | 0.000841 | 0.00362 | 1 | 09/15/2017 15:24 | WG1020800 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/15/2017 15:24* | WG1020800 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/15/2017 15:24* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *09/15/2017 15:24* | WG1020800 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.5 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0108 | 0.0541 | 1 | 09/15/2017 15:43 | WG1020800 |
| Acrylonitrile | U | | 0.00194 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Benzene | U | | 0.000292 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Bromobenzene | U | | 0.000307 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Bromochloromethane | U | | 0.000422 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| Bromoform | U | | 0.000459 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Bromomethane | U | | 0.00145 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| n-Butylbenzene | U | | 0.000279 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| sec-Butylbenzene | U | | 0.000217 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Carbon disulfide | 0.000333 | J | 0.000239 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Carbon tetrachloride | U | | 0.000355 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Chlorobenzene | U | | 0.000229 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Chlorodibromomethane | U | | 0.000403 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Chloroethane | U | | 0.00102 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| Chloroform | U | | 0.000248 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| Chloromethane | U | | 0.000406 | 0.00270 | 1 | 09/15/2017 15:43 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000326 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000260 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000371 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Dibromomethane | U | | 0.000413 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000258 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000244 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000771 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000215 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000287 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000328 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000254 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000286 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000387 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000343 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000283 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000289 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000841 | 0.00270 | 1 | 09/15/2017 15:43 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000302 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Di-isopropyl ether | U | | 0.000268 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Ethylbenzene | U | | 0.000321 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000370 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |
| n-Hexane | 0.000387 | J | 0.000314 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Iodomethane | U | | 0.00274 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Isopropylbenzene | U | | 0.000263 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00506 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Methylene Chloride | U | | 0.00108 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00203 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000229 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Naphthalene | U | | 0.00108 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Styrene | U | | 0.000253 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000286 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000395 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000395 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Tetrachloroethene | U | | 0.000299 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Toluene | U | | 0.000469 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000420 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000309 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000300 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Trichloroethene | U | | 0.000302 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000413 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000801 | 0.00270 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000228 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000310 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Vinyl acetate | U | | 0.00258 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Vinyl chloride | U | | 0.000315 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Xylenes, Total | U | | 0.000755 | 0.00324 | 1 | 09/15/2017 15:43 | WG1020800 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *09/15/2017 15:43* | WG1020800 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/15/2017 15:43* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/15/2017 15:43* | WG1020800 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.2 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0112 | 0.0560 | 1 | 09/20/2017 15:30 | WG1020800 |
| Acrylonitrile | U | J0 | 0.00201 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Benzene | U | | 0.000303 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Bromobenzene | U | | 0.000318 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Bromodichloromethane | U | | 0.000285 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Bromochloromethane | U | | 0.000437 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| Bromoform | U | | 0.000475 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Bromomethane | U | | 0.00150 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| n-Butylbenzene | U | | 0.000289 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| sec-Butylbenzene | U | | 0.000225 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| tert-Butylbenzene | U | | 0.000231 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Carbon disulfide | 0.000492 | J | 0.000248 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Carbon tetrachloride | U | | 0.000368 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Chlorobenzene | U | | 0.000238 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Chlorodibromomethane | U | | 0.000418 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Chloroethane | U | | 0.00106 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| Chloroform | U | | 0.000257 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| Chloromethane | U | | 0.000420 | 0.00280 | 1 | 09/20/2017 15:30 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000337 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000269 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000384 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Dibromomethane | U | | 0.000428 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000268 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000253 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000799 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000223 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000297 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000340 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000263 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000296 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000401 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000355 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000232 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000294 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000299 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U | | 0.000872 | 0.00280 | 1 | 09/20/2017 15:30 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000313 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Di-isopropyl ether | U | | 0.000278 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Ethylbenzene | U | | 0.000333 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000383 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 2-Hexanone | U | | 0.00154 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |
| n-Hexane | 0.000472 | J | 0.000325 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Isopropylbenzene | U | | 0.000272 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000229 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00524 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Methylene Chloride | U | | 0.00112 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00211 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000238 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Naphthalene | U | | 0.00112 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| n-Propylbenzene | U | | 0.000231 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Styrene | U | | 0.000262 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000296 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000409 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000409 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Tetrachloroethene | U | | 0.000309 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Toluene | U | | 0.000486 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000343 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000435 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000320 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000310 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Trichloroethene | U | | 0.000313 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000428 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000830 | 0.00280 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000322 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000298 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Vinyl acetate | U | | 0.00268 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Vinyl chloride | U | | 0.000326 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Xylenes, Total | U | | 0.000782 | 0.00336 | 1 | 09/20/2017 15:30 | WG1020800 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/20/2017 15:30* | WG1020800 |
| *(S) Dibromofluoromethane* | *115* | | | *74.0-131* | | *09/20/2017 15:30* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *112* | | | *64.0-132* | | *09/20/2017 15:30* | WG1020800 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.8 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0177 | J | 0.0110 | 0.0551 | 1 | 09/15/2017 16:23 | WG1020800 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Benzene | U | | 0.000297 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Bromobenzene | U | | 0.000313 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Bromochloromethane | U | | 0.000429 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| Bromoform | U | | 0.000467 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Bromomethane | U | | 0.00148 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| n-Butylbenzene | U | | 0.000284 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Carbon disulfide | 0.00122 | | 0.000243 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Carbon tetrachloride | U | | 0.000361 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Chlorodibromomethane | U | | 0.000411 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Chloroethane | U | | 0.00104 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| Chloroform | U | | 0.000252 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| Chloromethane | U | | 0.000413 | 0.00275 | 1 | 09/15/2017 16:23 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000331 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000264 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000378 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Dibromomethane | U | | 0.000421 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000263 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000249 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000785 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000292 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000334 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000259 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000291 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000394 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000349 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000294 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000857 | 0.00275 | 1 | 09/15/2017 16:23 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000307 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Di-isopropyl ether | U | | 0.000273 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Ethylbenzene | U | | 0.000327 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000377 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |
| n-Hexane | 0.00110 | J | 0.000319 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00515 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Methylene Chloride | U | | 0.00110 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00207 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Naphthalene | U | | 0.00110 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000291 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000402 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000402 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Tetrachloroethene | U | | 0.000304 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Toluene | U | | 0.000478 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000427 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000315 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000305 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Trichloroethene | U | | 0.000307 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000421 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000816 | 0.00275 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000316 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000293 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Vinyl acetate | U | | 0.00263 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Vinyl chloride | U | | 0.000320 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Xylenes, Total | U | | 0.000769 | 0.00330 | 1 | 09/15/2017 16:23 | WG1020800 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/15/2017 16:23* | WG1020800 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/15/2017 16:23* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/15/2017 16:23* | WG1020800 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.2 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0124 | J | 0.0120 | 0.0601 | 1 | 09/15/2017 16:42 | WG1020800 |
| Acrylonitrile | U | | 0.00215 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Benzene | U | | 0.000325 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Bromobenzene | U | | 0.000341 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Bromodichloromethane | U | | 0.000305 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Bromochloromethane | U | | 0.000469 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| Bromoform | U | | 0.000510 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Bromomethane | U | | 0.00161 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| n-Butylbenzene | U | | 0.000310 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| sec-Butylbenzene | U | | 0.000242 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| tert-Butylbenzene | U | | 0.000248 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Carbon disulfide | 0.000541 | J | 0.000266 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Carbon tetrachloride | U | | 0.000394 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Chlorobenzene | U | | 0.000255 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Chlorodibromomethane | U | | 0.000448 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Chloroethane | U | | 0.00114 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| Chloroform | U | | 0.000275 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| Chloromethane | U | | 0.000451 | 0.00301 | 1 | 09/15/2017 16:42 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000362 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000289 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000412 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Dibromomethane | U | | 0.000459 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000287 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000272 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000857 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000239 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000319 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000364 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000283 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000317 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000430 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000381 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000249 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000315 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000321 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000935 | 0.00301 | 1 | 09/15/2017 16:42 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000335 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Di-isopropyl ether | U | | 0.000298 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Ethylbenzene | U | | 0.000357 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000411 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 2-Hexanone | U | | 0.00165 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |
| n-Hexane | U | | 0.000349 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Iodomethane | U | | 0.00304 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Isopropylbenzene | U | | 0.000292 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000245 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00563 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Methylene Chloride | U | | 0.00120 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00226 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000255 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Naphthalene | U | | 0.00120 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| n-Propylbenzene | U | | 0.000248 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Styrene | U | | 0.000281 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000317 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000439 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000439 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Tetrachloroethene | U | | 0.000332 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Toluene | U | | 0.000522 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000368 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000466 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000344 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000333 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Trichloroethene | U | | 0.000335 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000459 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000891 | 0.00301 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000254 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000345 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000320 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Vinyl acetate | U | | 0.00287 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Vinyl chloride | U | | 0.000350 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Xylenes, Total | U | | 0.000839 | 0.00361 | 1 | 09/15/2017 16:42 | WG1020800 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/15/2017 16:42* | WG1020800 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/15/2017 16:42* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *64.0-132* | | *09/15/2017 16:42* | WG1020800 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.7 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0189 | J | 0.0109 | 0.0545 | 1 | 09/15/2017 17:02 | WG1020800 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Benzene | U | | 0.000295 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Bromomethane | U | | 0.00146 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Carbon disulfide | 0.000930 | J | 0.000241 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| Chloroform | U | | 0.000250 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| Chloromethane | U | | 0.000409 | 0.00273 | 1 | 09/15/2017 17:02 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000374 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000247 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000778 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000331 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000256 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000849 | 0.00273 | 1 | 09/15/2017 17:02 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Di-isopropyl ether | U | | 0.000271 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |
| n-Hexane | U | | 0.000316 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000398 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Tetrachloroethene | U | | 0.000301 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000302 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Trichloroethene | U | | 0.000304 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000417 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000808 | 0.00273 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Vinyl chloride | U | | 0.000317 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Xylenes, Total | U | | 0.000761 | 0.00327 | 1 | 09/15/2017 17:02 | WG1020800 |
| *(S) Toluene-d8* | *100* | | | *80.0-120* | | *09/15/2017 17:02* | WG1020800 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/15/2017 17:02* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *09/15/2017 17:02* | WG1020800 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.4 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0124 | 0.0622 | 1 | 09/15/2017 17:22 | WG1020800 |
| Acrylonitrile | U | | 0.00223 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Benzene | U | | 0.000336 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Bromobenzene | U | | 0.000353 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Bromodichloromethane | U | | 0.000316 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Bromochloromethane | U | | 0.000485 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| Bromoform | U | | 0.000527 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Bromomethane | U | | 0.00167 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| n-Butylbenzene | U | | 0.000321 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| sec-Butylbenzene | U | | 0.000250 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| tert-Butylbenzene | U | | 0.000256 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Carbon disulfide | U | | 0.000275 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Carbon tetrachloride | U | | 0.000408 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Chlorobenzene | U | | 0.000264 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Chlorodibromomethane | U | | 0.000464 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Chloroethane | U | | 0.00118 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| Chloroform | U | | 0.000285 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| Chloromethane | U | | 0.000466 | 0.00311 | 1 | 09/15/2017 17:22 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000374 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000299 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00131 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000427 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Dibromomethane | U | | 0.000475 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000379 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000297 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000281 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000887 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000248 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000330 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000377 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000292 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000328 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000445 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000394 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000257 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000326 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000332 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000968 | 0.00311 | 1 | 09/15/2017 17:22 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000347 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Di-isopropyl ether | U | | 0.000308 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Ethylbenzene | U | | 0.000369 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000425 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 2-Hexanone | U | | 0.00170 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |
| n-Hexane | U | | 0.000361 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Iodomethane | U | | 0.00315 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Isopropylbenzene | U | | 0.000302 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000254 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00582 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Methylene Chloride | U | | 0.00124 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00234 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000264 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Naphthalene | U | | 0.00124 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| n-Propylbenzene | U | | 0.000256 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Styrene | U | | 0.000291 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000328 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000454 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000454 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Tetrachloroethene | U | | 0.000343 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Toluene | U | | 0.000540 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000381 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000483 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000356 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000345 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Trichloroethene | U | | 0.000347 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000475 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000922 | 0.00311 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000262 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000357 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000331 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Vinyl acetate | U | | 0.00297 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Vinyl chloride | U | | 0.000362 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Xylenes, Total | U | | 0.000868 | 0.00373 | 1 | 09/15/2017 17:22 | WG1020800 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/15/2017 17:22* | WG1020800 |
| *(S) Dibromofluoromethane* | *99.4* | | | *74.0-131* | | *09/15/2017 17:22* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/15/2017 17:22* | WG1020800 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.5 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0120 | 0.0598 | 1 | 09/15/2017 17:41 | WG1020800 |
| Acrylonitrile | U | | 0.00214 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Benzene | U | | 0.000323 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Bromobenzene | U | | 0.000340 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Bromodichloromethane | U | | 0.000304 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Bromochloromethane | U | | 0.000467 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| Bromoform | U | | 0.000507 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Bromomethane | U | | 0.00160 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| n-Butylbenzene | U | | 0.000309 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| sec-Butylbenzene | U | | 0.000241 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| tert-Butylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Carbon disulfide | U | | 0.000265 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Carbon tetrachloride | U | | 0.000393 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Chlorobenzene | U | | 0.000254 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Chlorodibromomethane | U | | 0.000446 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Chloroethane | U | | 0.00113 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| Chloroform | U | | 0.000274 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| Chloromethane | U | | 0.000449 | 0.00299 | 1 | 09/15/2017 17:41 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000360 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000287 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000411 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Dibromomethane | U | | 0.000457 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000365 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000286 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000271 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000853 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000238 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000317 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000363 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000281 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000316 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000428 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000379 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000248 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000314 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000320 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000931 | 0.00299 | 1 | 09/15/2017 17:41 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000334 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Di-isopropyl ether | U | | 0.000297 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Ethylbenzene | U | | 0.000355 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000409 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 2-Hexanone | U | | 0.00164 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |
| n-Hexane | U | | 0.000347 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Iodomethane | U | | 0.00303 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Isopropylbenzene | U | | 0.000291 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000244 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00560 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Methylene Chloride | U | | 0.00120 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00225 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000254 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Naphthalene | U | | 0.00120 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| n-Propylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Styrene | U | | 0.000280 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000316 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000437 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000437 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Tetrachloroethene | U | | 0.000330 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Toluene | U | | 0.000519 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000366 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000464 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000342 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000332 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Trichloroethene | U | | 0.000334 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000457 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000887 | 0.00299 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000253 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000344 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000318 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Vinyl acetate | U | | 0.00286 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Vinyl chloride | U | | 0.000348 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Xylenes, Total | U | | 0.000835 | 0.00359 | 1 | 09/15/2017 17:41 | WG1020800 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/15/2017 17:41* | WG1020800 |
| *(S) Dibromofluoromethane* | *99.8* | | | *74.0-131* | | *09/15/2017 17:41* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/15/2017 17:41* | WG1020800 |

## Method Blank (MB)

(MB) R3250567-1 09/19/17 13:04

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L936401-01 Original Sample (OS) • Duplicate (DUP)

(OS) L936401-01 09/19/17 13:04 • (DUP) R3250567-3 09/19/17 13:04

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 86.3 | 87.6 | 1 | 1.43 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3250567-2 09/19/17 13:04

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3250770-3 09/15/17 11:58

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3250770-3 09/15/17 11:58

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Methylene Chloride | 0.00109 | J | 0.00100 | 0.00500 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *98.6* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3250770-1 09/15/17 10:39 • (LCSD) R3250770-2 09/15/17 10:59

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.163 | 0.131 | 130 | 104 | 11.0-160 | | | 22.0 | 23 |
| Benzene | 0.0250 | 0.0270 | 0.0263 | 108 | 105 | 71.0-124 | | | 2.47 | 20 |
| Acrylonitrile | 0.125 | 0.131 | 0.122 | 105 | 97.6 | 61.0-143 | | | 7.33 | 20 |
| Bromobenzene | 0.0250 | 0.0243 | 0.0246 | 97.3 | 98.2 | 78.0-120 | | | 0.930 | 20 |
| Bromodichloromethane | 0.0250 | 0.0269 | 0.0268 | 108 | 107 | 75.0-120 | | | 0.370 | 20 |
| Bromochloromethane | 0.0250 | 0.0299 | 0.0291 | 120 | 116 | 80.0-121 | | | 2.74 | 20 |
| Bromoform | 0.0250 | 0.0260 | 0.0261 | 104 | 104 | 65.0-133 | | | 0.220 | 20 |
| Bromomethane | 0.0250 | 0.0324 | 0.0314 | 130 | 126 | 26.0-160 | | | 3.18 | 20 |
| n-Butylbenzene | 0.0250 | 0.0282 | 0.0275 | 113 | 110 | 73.0-126 | | | 2.60 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0277 | 0.0278 | 111 | 111 | 75.0-121 | | | 0.100 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0273 | 0.0268 | 109 | 107 | 66.0-123 | | | 2.01 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0283 | 0.0280 | 113 | 112 | 74.0-122 | | | 0.820 | 20 |
| Carbon disulfide | 0.0250 | 0.0215 | 0.0217 | 86.1 | 86.9 | 53.0-130 | | | 0.830 | 20 |
| Chlorobenzene | 0.0250 | 0.0289 | 0.0303 | 116 | 121 | 79.0-121 | | | 4.81 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0285 | 0.0303 | 114 | 121 | 74.0-128 | | | 6.07 | 20 |
| Chloroethane | 0.0250 | 0.0264 | 0.0257 | 106 | 103 | 51.0-147 | | | 2.79 | 20 |
| Chloroform | 0.0250 | 0.0275 | 0.0263 | 110 | 105 | 73.0-123 | | | 4.74 | 20 |
| Chloromethane | 0.0250 | 0.0227 | 0.0215 | 91.0 | 85.9 | 51.0-138 | | | 5.69 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0269 | 0.0267 | 108 | 107 | 72.0-124 | | | 0.530 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0265 | 0.0261 | 106 | 105 | 78.0-120 | | | 1.48 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0264 | 0.0267 | 106 | 107 | 65.0-126 | | | 1.03 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0303 | 0.0313 | 121 | 125 | 78.0-122 | | J4 | 3.35 | 20 |
| Dibromomethane | 0.0250 | 0.0290 | 0.0301 | 116 | 120 | 79.0-120 | | | 3.79 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0282 | 0.0289 | 113 | 115 | 80.0-120 | | | 2.40 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0280 | 0.0285 | 112 | 114 | 72.0-123 | | | 1.69 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0276 | 0.0276 | 110 | 111 | 77.0-120 | | | 0.160 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0203 | 0.0201 | 81.1 | 80.3 | 68.0-126 | | | 0.990 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0320 | 0.0295 | 128 | 118 | 49.0-155 | | | 8.21 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0250 | 0.0248 | 99.9 | 99.2 | 70.0-128 | | | 0.760 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0272 | 0.0262 | 109 | 105 | 69.0-128 | | | 3.95 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0298 | 0.0291 | 119 | 116 | 63.0-131 | | | 2.29 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0283 | 0.0269 | 113 | 108 | 72.0-122 | | | 5.26 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0275 | 0.0267 | 110 | 107 | 74.0-123 | | | 2.86 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0252 | 0.0255 | 101 | 102 | 75.0-126 | | | 1.13 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0268 | 0.0257 | 107 | 103 | 72.0-130 | | | 4.40 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0289 | 0.0295 | 116 | 118 | 80.0-121 | | | 1.97 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0267 | 0.0277 | 107 | 111 | 80.0-125 | | | 3.83 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0280 | 0.0291 | 112 | 116 | 75.0-129 | | | 3.93 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0250 | 0.0239 | 100 | 95.7 | 60.0-129 | | | 4.48 | 20 |
| Ethylbenzene | 0.0250 | 0.0281 | 0.0295 | 112 | 118 | 77.0-120 | | | 4.93 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3250770-1 09/15/17 10:39 • (LCSD) R3250770-2 09/15/17 10:59

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Di-isopropyl ether | 0.0250 | 0.0209 | 0.0207 | 83.5 | 82.8 | 62.0-133 | | | 0.880 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0276 | 0.0273 | 111 | 109 | 68.0-128 | | | 1.15 | 20 |
| 2-Hexanone | 0.125 | 0.135 | 0.133 | 108 | 106 | 61.0-143 | | | 1.18 | 20 |
| n-Hexane | 0.0250 | 0.0230 | 0.0224 | 92.0 | 89.5 | 57.0-125 | | | 2.74 | 20 |
| Iodomethane | 0.125 | 0.130 | 0.127 | 104 | 102 | 67.0-132 | | | 2.20 | 20 |
| Isopropylbenzene | 0.0250 | 0.0275 | 0.0274 | 110 | 110 | 75.0-120 | | | 0.380 | 20 |
| Methylene Chloride | 0.0250 | 0.0276 | 0.0274 | 110 | 110 | 67.0-123 | | | 0.420 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0278 | 0.0276 | 111 | 110 | 74.0-125 | | | 0.670 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.144 | 0.125 | 115 | 99.7 | 37.0-159 | | | 14.3 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.125 | 0.128 | 100 | 102 | 60.0-144 | | | 1.90 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0264 | 0.0256 | 106 | 102 | 66.0-125 | | | 3.09 | 20 |
| Naphthalene | 0.0250 | 0.0289 | 0.0296 | 116 | 118 | 64.0-125 | | | 2.24 | 20 |
| n-Propylbenzene | 0.0250 | 0.0273 | 0.0272 | 109 | 109 | 78.0-120 | | | 0.370 | 20 |
| Tetrachloroethene | 0.0250 | 0.0304 | 0.0308 | 121 | 123 | 70.0-127 | | | 1.49 | 20 |
| Styrene | 0.0250 | 0.0283 | 0.0270 | 113 | 108 | 78.0-124 | | | 4.86 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0289 | 0.0301 | 115 | 120 | 74.0-124 | | | 4.07 | 20 |
| Toluene | 0.0250 | 0.0288 | 0.0295 | 115 | 118 | 77.0-120 | | | 2.22 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0290 | 0.0289 | 116 | 116 | 73.0-120 | | | 0.450 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0283 | 0.0274 | 113 | 109 | 69.0-125 | | | 3.50 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0252 | 0.0264 | 101 | 106 | 64.0-135 | | | 4.96 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0265 | 0.0288 | 106 | 115 | 68.0-126 | | | 8.21 | 20 |
| Trichloroethene | 0.0250 | 0.0275 | 0.0287 | 110 | 115 | 79.0-120 | | | 4.31 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0271 | 0.0260 | 108 | 104 | 70.0-127 | | | 4.09 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0300 | 0.0310 | 120 | 124 | 78.0-120 | | J4 | 3.21 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0340 | 0.0321 | 136 | 128 | 59.0-136 | | | 5.69 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0298 | 0.0315 | 119 | 126 | 73.0-124 | | J4 | 5.47 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0252 | 0.0253 | 101 | 101 | 76.0-120 | | | 0.530 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0261 | 0.0262 | 104 | 105 | 75.0-120 | | | 0.220 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0277 | 0.0273 | 111 | 109 | 75.0-120 | | | 1.32 | 20 |
| Vinyl acetate | 0.125 | 0.122 | 0.119 | 97.7 | 95.4 | 58.0-156 | | | 2.39 | 20 |
| Vinyl chloride | 0.0250 | 0.0287 | 0.0274 | 115 | 110 | 63.0-134 | | | 4.72 | 20 |
| Xylenes, Total | 0.0750 | 0.0863 | 0.0883 | 115 | 118 | 77.0-120 | | | 2.29 | 20 |
| *(S) Toluene-d8* | | | | *105* | *108* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *101* | *96.8* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *92.9* | *93.3* | *64.0-132* | | | | |

## L936401-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L936401-01 09/15/17 15:04 • (MS) R3250770-4 09/15/17 18:40 • (MSD) R3250770-5 09/15/17 19:00

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.0290 | U | 0.00468 | 0.00464 | 16.2 | 16.0 | 1 | 13.0-146 | | | 0.780 | 27 |
| Acetone | 0.145 | U | 0.0907 | 0.0989 | 62.6 | 68.3 | 1 | 10.0-160 | | | 8.63 | 36 |
| Acrylonitrile | 0.145 | U | 0.0770 | 0.0864 | 53.2 | 59.7 | 1 | 14.0-160 | | | 11.4 | 33 |
| Bromobenzene | 0.0290 | U | 0.0126 | 0.0108 | 43.5 | 37.3 | 1 | 10.0-149 | | | 15.3 | 33 |
| Bromodichloromethane | 0.0290 | U | 0.0154 | 0.0136 | 53.0 | 47.0 | 1 | 15.0-142 | | | 12.0 | 28 |
| Bromochloromethane | 0.0290 | U | 0.00616 | 0.00617 | 21.3 | 21.3 | 1 | 24.0-146 | J6 | J6 | 0.0800 | 27 |
| Bromoform | 0.0290 | U | 0.0151 | 0.0123 | 52.2 | 42.4 | 1 | 10.0-147 | | | 20.7 | 31 |
| Bromomethane | 0.0290 | U | ND | ND | 0.000 | 0.000 | 1 | 10.0-160 | J6 | J6 | 0.000 | 32 |
| Carbon tetrachloride | 0.0290 | U | 0.00605 | 0.00627 | 20.9 | 21.7 | 1 | 13.0-140 | | | 3.66 | 30 |
| n-Butylbenzene | 0.0290 | U | 0.0167 | 0.0136 | 57.5 | 47.1 | 1 | 10.0-154 | | | 19.9 | 37 |
| sec-Butylbenzene | 0.0290 | U | 0.0183 | 0.0146 | 63.3 | 50.5 | 1 | 10.0-151 | | | 22.6 | 36 |
| tert-Butylbenzene | 0.0290 | U | 0.0189 | 0.0161 | 65.2 | 55.5 | 1 | 10.0-152 | | | 16.0 | 35 |
| Carbon disulfide | 0.0290 | 0.000476 | 0.000439 | 0.000535 | 0.000 | 0.203 | 1 | 10.0-141 | J6 | J6 | 19.8 | 30 |
| Chlorobenzene | 0.0290 | U | 0.0108 | 0.0102 | 37.2 | 35.1 | 1 | 10.0-149 | | | 5.95 | 31 |
| Chloroform | 0.0290 | U | 0.0119 | 0.0123 | 41.1 | 42.3 | 1 | 18.0-148 | | | 2.78 | 28 |
| Chlorodibromomethane | 0.0290 | U | 0.0164 | 0.0147 | 56.5 | 50.7 | 1 | 12.0-147 | | | 10.9 | 29 |
| Chloroethane | 0.0290 | U | ND | ND | 0.000 | 0.000 | 1 | 10.0-159 | J6 | J6 | 0.000 | 33 |
| Chloromethane | 0.0290 | U | ND | ND | 0.000 | 0.000 | 1 | 10.0-146 | J6 | J6 | 0.000 | 29 |
| 2-Chlorotoluene | 0.0290 | U | 0.0149 | 0.0128 | 51.3 | 44.2 | 1 | 10.0-151 | | | 14.9 | 35 |
| 4-Chlorotoluene | 0.0290 | U | 0.0134 | 0.0117 | 46.3 | 40.5 | 1 | 10.0-150 | | | 13.3 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0290 | U | 0.0201 | 0.0190 | 69.5 | 65.7 | 1 | 10.0-149 | | | 5.55 | 34 |
| 1,2-Dibromoethane | 0.0290 | U | 0.0118 | 0.0113 | 40.6 | 39.0 | 1 | 14.0-145 | | | 4.08 | 28 |
| Dibromomethane | 0.0290 | U | 0.0102 | 0.0107 | 35.2 | 36.8 | 1 | 18.0-144 | | | 4.50 | 27 |
| 1,2-Dichlorobenzene | 0.0290 | U | 0.0148 | 0.0118 | 51.2 | 40.9 | 1 | 10.0-153 | | | 22.3 | 34 |
| 1,3-Dichlorobenzene | 0.0290 | U | 0.0135 | 0.0117 | 46.4 | 40.5 | 1 | 10.0-150 | | | 13.7 | 35 |
| 1,4-Dichlorobenzene | 0.0290 | U | 0.0131 | 0.0105 | 45.3 | 36.4 | 1 | 10.0-148 | | | 21.8 | 34 |
| trans-1,4-Dichloro-2-butene | 0.0290 | U | 0.0120 | 0.0105 | 41.6 | 36.2 | 1 | 10.0-160 | | | 13.9 | 40 |
| Dichlorodifluoromethane | 0.0290 | U | ND | 0.00133 | 0.000 | 4.60 | 1 | 10.0-160 | J6 | J3 J6 | 200 | 30 |
| 1,1-Dichloroethane | 0.0290 | U | 0.00720 | 0.00750 | 24.9 | 25.9 | 1 | 19.0-148 | | | 4.10 | 28 |
| trans-1,2-Dichloroethene | 0.0290 | U | 0.00124 | 0.00119 | 4.27 | 4.11 | 1 | 11.0-142 | J6 | J6 | 3.84 | 29 |
| 1,2-Dichloroethane | 0.0290 | U | 0.00852 | 0.00872 | 29.4 | 30.1 | 1 | 17.0-147 | | | 2.38 | 27 |
| 1,1-Dichloroethene | 0.0290 | U | 0.00210 | 0.00218 | 7.25 | 7.51 | 1 | 10.0-150 | J6 | J6 | 3.53 | 31 |
| cis-1,2-Dichloroethene | 0.0290 | U | 0.00622 | 0.00646 | 21.5 | 22.3 | 1 | 16.0-145 | | | 3.83 | 28 |
| 1,2-Dichloropropane | 0.0290 | U | 0.0109 | 0.0111 | 37.5 | 38.3 | 1 | 17.0-148 | | | 2.03 | 28 |
| 1,1-Dichloropropene | 0.0290 | U | 0.00265 | 0.00245 | 9.15 | 8.45 | 1 | 10.0-150 | J6 | J6 | 7.95 | 30 |
| 1,3-Dichloropropane | 0.0290 | U | 0.0132 | 0.0140 | 45.5 | 48.4 | 1 | 16.0-148 | | | 5.97 | 27 |
| cis-1,3-Dichloropropene | 0.0290 | U | 0.00844 | 0.00824 | 29.1 | 28.4 | 1 | 13.0-150 | | | 2.37 | 28 |
| Ethylbenzene | 0.0290 | U | 0.0101 | 0.00908 | 34.8 | 31.3 | 1 | 10.0-147 | | | 10.6 | 31 |
| trans-1,3-Dichloropropene | 0.0290 | U | 0.0103 | 0.00949 | 35.4 | 32.8 | 1 | 10.0-152 | | | 7.76 | 29 |

## L936401-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L936401-01 09/15/17 15:04 • (MS) R3250770-4 09/15/17 18:40 • (MSD) R3250770-5 09/15/17 19:00

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,2-Dichloropropane | 0.0290 | U | 0.00999 | 0.0100 | 34.5 | 34.5 | 1 | 16.0-143 | | | 0.190 | 30 |
| Di-isopropyl ether | 0.0290 | U | 0.0102 | 0.0102 | 35.2 | 35.3 | 1 | 16.0-149 | | | 0.360 | 28 |
| Hexachloro-1,3-butadiene | 0.0290 | U | 0.0196 | 0.0144 | 67.5 | 49.8 | 1 | 10.0-154 | | | 30.1 | 40 |
| 2-Hexanone | 0.145 | U | 0.105 | 0.112 | 72.5 | 77.3 | 1 | 12.0-158 | | | 6.36 | 30 |
| n-Hexane | 0.0290 | 0.000629 | 0.00166 | 0.000927 | 3.56 | 1.03 | 1 | 10.0-140 | J6 | J3 J6 | 56.6 | 34 |
| Iodomethane | 0.145 | U | 0.00500 | 0.00501 | 3.45 | 3.46 | 1 | 10.0-157 | J6 | J6 | 0.300 | 34 |
| Methylene Chloride | 0.0290 | U | 0.00435 | 0.00422 | 15.0 | 14.6 | 1 | 16.0-139 | J6 | J6 | 2.89 | 29 |
| Isopropylbenzene | 0.0290 | U | 0.0151 | 0.0132 | 52.1 | 45.6 | 1 | 10.0-147 | | | 13.3 | 33 |
| p-Isopropyltoluene | 0.0290 | U | 0.0165 | 0.0140 | 57.1 | 48.3 | 1 | 10.0-156 | | | 16.7 | 37 |
| 2-Butanone (MEK) | 0.145 | U | 0.0929 | 0.102 | 64.2 | 70.4 | 1 | 10.0-160 | | | 9.26 | 33 |
| 4-Methyl-2-pentanone (MIBK) | 0.145 | U | 0.106 | 0.111 | 73.5 | 76.7 | 1 | 12.0-160 | | | 4.35 | 32 |
| Methyl tert-butyl ether | 0.0290 | U | 0.0143 | 0.0143 | 49.2 | 49.2 | 1 | 21.0-145 | | | 0.000 | 29 |
| Naphthalene | 0.0290 | U | 0.0113 | 0.00888 | 39.1 | 30.7 | 1 | 10.0-153 | | | 24.2 | 36 |
| Tetrachloroethene | 0.0290 | U | 0.00551 | 0.00473 | 19.0 | 16.3 | 1 | 10.0-144 | | | 15.2 | 32 |
| n-Propylbenzene | 0.0290 | U | 0.0146 | 0.0123 | 50.4 | 42.6 | 1 | 10.0-151 | | | 16.9 | 34 |
| Toluene | 0.0290 | U | 0.00686 | 0.00651 | 23.7 | 22.5 | 1 | 10.0-144 | | | 5.19 | 28 |
| Styrene | 0.0290 | U | 0.0119 | 0.00981 | 41.2 | 33.9 | 1 | 10.0-155 | | | 19.6 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0290 | U | 0.0174 | 0.0174 | 60.0 | 59.9 | 1 | 10.0-147 | | | 0.210 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0290 | U | 0.0265 | 0.0252 | 91.6 | 87.0 | 1 | 10.0-155 | | | 5.09 | 31 |
| 1,1,1-Trichloroethane | 0.0290 | U | 0.00909 | 0.00904 | 31.4 | 31.2 | 1 | 18.0-145 | | | 0.640 | 29 |
| Trichloroethene | 0.0290 | U | 0.00543 | 0.00464 | 18.8 | 16.0 | 1 | 11.0-148 | | | 15.8 | 29 |
| 1,1,2-Trichlorotrifluoroethane | 0.0290 | U | 0.00617 | 0.00705 | 21.3 | 24.3 | 1 | 10.0-153 | | | 13.3 | 33 |
| 1,2,3-Trichlorobenzene | 0.0290 | U | 0.0108 | 0.00819 | 37.1 | 28.3 | 1 | 10.0-153 | | | 27.2 | 40 |
| 1,2,4-Trichlorobenzene | 0.0290 | U | 0.0105 | 0.00798 | 36.4 | 27.5 | 1 | 10.0-156 | | | 27.6 | 40 |
| 1,1,2-Trichloroethane | 0.0290 | U | 0.0190 | 0.0193 | 65.5 | 66.5 | 1 | 12.0-151 | | | 1.49 | 28 |
| Trichlorofluoromethane | 0.0290 | U | 0.00360 | 0.00387 | 12.4 | 13.4 | 1 | 10.0-157 | | | 7.30 | 34 |
| 1,2,3-Trichloropropane | 0.0290 | U | 0.0269 | 0.0250 | 92.8 | 86.2 | 1 | 10.0-154 | | | 7.41 | 32 |
| 1,2,3-Trimethylbenzene | 0.0290 | U | 0.0154 | 0.0131 | 53.0 | 45.2 | 1 | 10.0-150 | | | 16.0 | 33 |
| 1,2,4-Trimethylbenzene | 0.0290 | U | 0.0142 | 0.0123 | 49.1 | 42.3 | 1 | 10.0-151 | | | 14.9 | 34 |
| 1,3,5-Trimethylbenzene | 0.0290 | U | 0.0148 | 0.0124 | 51.3 | 42.8 | 1 | 10.0-150 | | | 17.9 | 33 |
| Vinyl acetate | 0.145 | U | 0.0252 | 0.0237 | 17.4 | 16.4 | 1 | 10.0-160 | | | 6.16 | 40 |
| Vinyl chloride | 0.0290 | U | 0.000412 | 0.000389 | 1.42 | 1.34 | 1 | 10.0-150 | J6 | J6 | 5.68 | 29 |
| Xylenes, Total | 0.0869 | U | 0.0313 | 0.0290 | 36.0 | 33.4 | 1 | 10.0-150 | | | 7.41 | 31 |
| *(S) Toluene-d8* | | | | | *97.4* | *105* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *96.8* | *99.7* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *101* | *100* | | *64.0-132* | | | | |

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

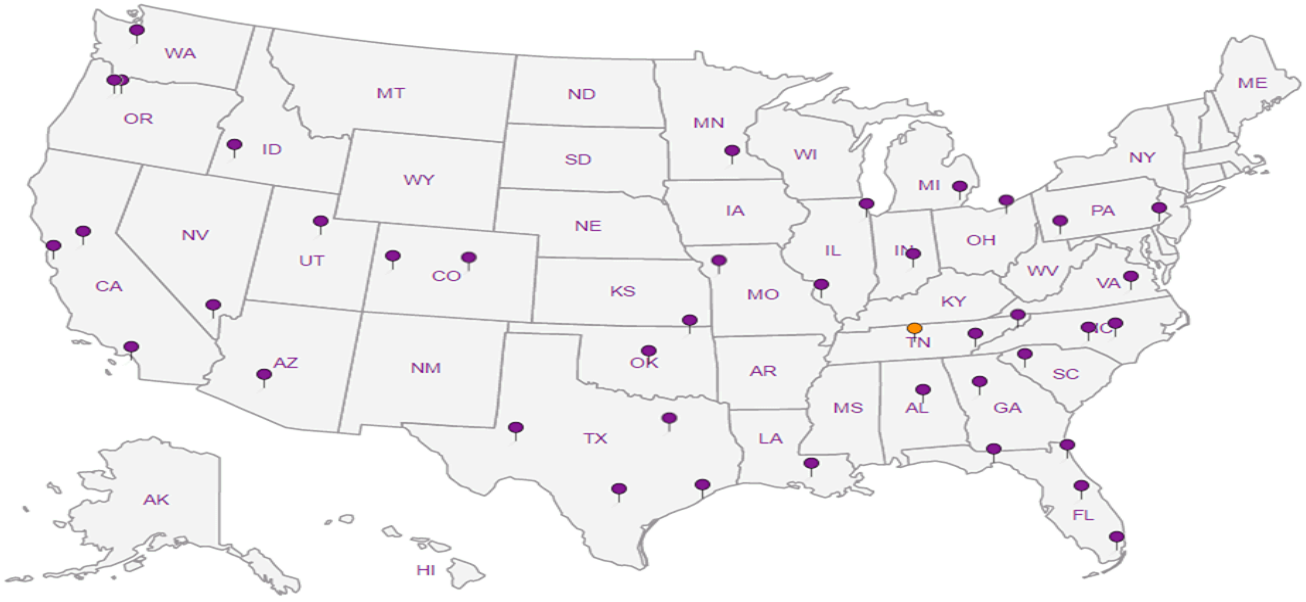
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc. -WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: Seattle, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project #: 1413.001.02.602

Lab Project #: PESENVSWA-ALP

L# L936401

Table # A203

Collected by (print): Karsten Springstad

Site/Facility ID #: 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Acctnum: PESENVSWA
Template: T126586
Prelogin: P613274
TSR:
PB:
Shipped Via:

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres / 2x 2ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-910-90 | GRAB | SS | 90 | 9/13/17 | 0930 | 5 | | | X | X | | | | | | | | -01 |
| B-215-85 | ↓ | ↓ | 85 | ↓ | 1015 | ~~4~~ 5 | | | X | X | | | | | | | | -02 |
| MW-138-65 | | | 65 | | 1030 | 4 | | | X | X | | | | | | | | -03 |
| B-909-115 | | | 115 | | 1130 | 5 | | | X | X | | | | | | | | -04 |
| MW-138-75 | | | 75 | | 1115 | 5 | | | X | X | | | | | | | | -05 |
| MW-138-85 | | | 85 | | 1140 | 5 | | | X | X | | | | | | | | -06 |
| MW-138-95 | | | 95 | | ~~1255~~ 1305 | 5 | | | X | X | | | | | | | | -07 |
| MW-138-105 | | | 105 | | 1255 | 5 | | | X | X | | | | | | | | -08 |
| B-215-95 | Grab | SS | 95 | 9/13/17 | 1050 | 5 | | | X | X | | | | | | | | -09 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_______

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: ___ UPS X FedEx ___ Courier ___

Tracking # 7474 0927 0935

Sample Receipt Checklist
COC Seal Present/Intact: __NP _Y _N
COC Signed/Accurate: _Y _N
Bottles arrive intact: _Y _N
Correct bottles used: _Y _N
Sufficient volume sent: _Y _N
If Applicable
VOA Zero Headspace: _Y _N
Preservation Correct/Checked: _Y _N

| Relinquished by: (Signature) | Date: 9/13/17 | Time: 1500 | Received by: (Signature) | Trip Blank Received: Yes / (No) HCL / MeoH TBR | |
|---|---|---|---|---|---|
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: 2.3 °C Bottles Received: 44 | If preservation required by Login: Date/Time |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 9/14/17 Time: 0845 | Hold: Condition: NCF / (OK) |

MWll

# MEMORANDUM

**TO:** Project File **DATE:** October 16, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** September 13, 2017 – Soil Samples

**LAB:** ESC Lab ID L936401

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Nine (9) soil samples were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 13, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C; and
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L936401. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L936401 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on September 13, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 2.3 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for trans-1,4-dichloro-2-butene associated with analytical batch WG1020800 (analyzed on September 15, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acrylonitrile associated with analytical batch WG1020800 (analyzed on September 20, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs) with the following discussion:

- Methylene chloride was detected at a low level below the RDL and above the method detection limit. No action was necessary as methylene chloride was not detected in the associated samples.

*Total Solids by SM 2540 G 2011:*
Laboratory method blank was included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was not collected.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Two sets of field duplicate (samples MW-138-65/B-910-90 and samples B-215-85/B-909-115) results are comparable. Refer to matrix spike results for further discussion regarding estimated (UJ) and rejected (R) VOC results for field duplicate pair samples MW-138-65 and B-910-90.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on two non-client samples, and on client sample B-910-90. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs

for the all target compounds are within the laboratory control criteria for soils with the following exception:

- LCSD (Batch WG1020800) recoveries for three spiking compound (1,2-dibromoethane, 1,1,2-trichloroethane, and 1,2,3-trichloropropane) results are above laboratory acceptance criteria and qualified by the laboratory (J4). No action was taken on this basis since these compounds were not detected in the associated samples.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses was performed client sample B-910-90. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for soils with the following exceptions:

- MS/MSD (Batch WG1020800) recoveries for multiple spiking compounds are low and in many cases were recovered below 10% and are qualified as follows:
    - MS/MSD RPD values dichlorodifluoromethane and n-hexane were recovered wide, above laboratory acceptance criteria, and qualified (J3) by the laboratory. No action is taken on this basis. Refer to the discussion below on low spike recoveries for additional details.
    - MS/MSD spike compound results for bromochloromethane were slightly below laboratory acceptance criteria and qualified (J6) by the laboratory to indicate matrix interference. **Bromochloromethane results for sample B-910-90 and parent sample MW-138-65 are estimated and qualified (UJ).**
    - MS/MSD recoveries for twelve compound (bromomethane, carbon disulfide, chloroethane, chloromethane, dichlorodifluoromethane, trans-1,2-dichloroethene, 1,1-dichloroethene, 1,1-dichloropropene, n-hexane iodomethane, and methylene chloride) results are below 10% and are qualified (J6) by the laboratory to indicate matrix interference. **Results (bromomethane, carbon disulfide, chloroethane, chloromethane, dichlorodifluoromethane, 1,1-dichloroethene, 1,1-dichloropropene, trans-1,2-dichloroethene, n-hexane, iodomethane, methylene chloride, and vinyl chloride) for sample B-910-90 and parent sample MW-138-65 <u>detects</u> (carbon disulfide and n-hexane) are estimated, qualified (J), and <u>non-detects</u> are rejected (R) due to low spike recoveries.**

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use with the following exceptions:

- **Non-detected results (bromomethane, chloroethane, chloromethane, dichlorodifluoromethane, 1,1-dichloroethene, trans-1,2-dichloroethene 1,1-dichloropropene, iodomethane, methylene chloride, and vinyl chloride) for sample B-910-90 and parent sample MW-138-65 are rejected (R) due to low spike recoveries.**

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.3 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0579 | 1 | 09/15/2017 15:04 | WG1020800 |
| Acrylonitrile | U | | 0.00207 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Bromobenzene | U | | 0.000329 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Bromochloromethane | U UJ | J6 | 0.000452 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| Bromoform | U | | 0.000491 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Bromomethane | U R | J6 | 0.00155 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Carbon disulfide | 0.000476 J | J J6 | 0.000256 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Carbon tetrachloride | U | | 0.000380 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Chlorodibromomethane | U | | 0.000432 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Chloroethane | U R | J6 | 0.00110 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| Chloroform | U | | 0.000265 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| Chloromethane | U R | J6 | 0.000435 | 0.00290 | 1 | 09/15/2017 15:04 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000397 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Dichlorodifluoromethane | U R | J3 J6 | 0.000826 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1-Dichloroethene | U R | J6 | 0.000351 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000272 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| trans-1,2-Dichloroethene | U R | J6 | 0.000306 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000415 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1-Dichloropropene | U R | J6 | 0.000367 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000901 | 0.00290 | 1 | 09/15/2017 15:04 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000323 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Di-isopropyl ether | U | | 0.000287 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Ethylbenzene | U | | 0.000344 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000396 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |
| n-Hexane | 0.000629 J | J J3 J6 | 0.000336 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Iodomethane | U R | J6 | 0.00293 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00542 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Methylene Chloride | U R | J6 | 0.00116 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |

JC 10/16/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Naphthalene | U | | 0.00116 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000423 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000423 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Toluene | U | | 0.000503 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000321 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Trichloroethene | U | | 0.000323 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00579 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000859 | 0.00290 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Vinyl chloride | U R | J6 | 0.000337 | 0.00116 | 1 | 09/15/2017 15:04 | WG1020800 |
| Xylenes, Total | U | | 0.000809 | 0.00348 | 1 | 09/15/2017 15:04 | WG1020800 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/15/2017 15:04* | WG1020800 |
| *(S) Dibromofluoromethane* | *97.8* | | | *74.0-131* | | *09/15/2017 15:04* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/15/2017 15:04* | WG1020800 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.0 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0121 | 0.0603 | 1 | 09/15/2017 15:24 | WG1020800 |
| Acrylonitrile | U | | 0.00216 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Benzene | U | | 0.000325 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Bromobenzene | U | | 0.000342 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Bromodichloromethane | U | | 0.000306 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Bromochloromethane | U | | 0.000470 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| Bromoform | U | | 0.000511 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Bromomethane | U | | 0.00162 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| n-Butylbenzene | U | | 0.000311 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| sec-Butylbenzene | U | | 0.000242 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| tert-Butylbenzene | U | | 0.000248 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Carbon disulfide | U | | 0.000266 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Carbon tetrachloride | U | | 0.000395 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Chlorobenzene | U | | 0.000256 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Chlorodibromomethane | U | | 0.000450 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Chloroethane | U | | 0.00114 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| Chloroform | U | | 0.000276 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| Chloromethane | U | | 0.000452 | 0.00301 | 1 | 09/15/2017 15:24 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000363 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000289 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00127 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000413 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Dibromomethane | U | | 0.000461 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000368 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000288 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000272 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000860 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000240 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000319 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000365 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000283 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000318 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000432 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000382 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000250 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000316 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000322 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000938 | 0.00301 | 1 | 09/15/2017 15:24 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000336 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Di-isopropyl ether | U | | 0.000299 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Ethylbenzene | U | | 0.000358 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000412 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 2-Hexanone | U | | 0.00165 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |
| n-Hexane | U | | 0.000350 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Iodomethane | U | | 0.00305 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Isopropylbenzene | U | | 0.000293 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000246 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00564 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Methylene Chloride | U | | 0.00121 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00227 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000256 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Naphthalene | U | | 0.00121 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| n-Propylbenzene | U | | 0.000248 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Styrene | U | | 0.000282 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000318 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000440 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000440 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Tetrachloroethene | U | | 0.000333 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Toluene | U | | 0.000523 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000369 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000468 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000345 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000334 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Trichloroethene | U | | 0.000336 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000461 | 0.00603 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000893 | 0.00301 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000254 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000346 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000321 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Vinyl acetate | U | | 0.00288 | 0.0121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Vinyl chloride | U | | 0.000351 | 0.00121 | 1 | 09/15/2017 15:24 | WG1020800 |
| Xylenes, Total | U | | 0.000841 | 0.00362 | 1 | 09/15/2017 15:24 | WG1020800 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/15/2017 15:24* | WG1020800 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/15/2017 15:24* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *09/15/2017 15:24* | WG1020800 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.5 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0108 | 0.0541 | 1 | 09/15/2017 15:43 | WG1020800 |
| Acrylonitrile | U | | 0.00194 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Benzene | U | | 0.000292 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Bromobenzene | U | | 0.000307 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Bromodichloromethane | U | | 0.000275 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Bromochloromethane | U | UJ | 0.000422 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| Bromoform | U | | 0.000459 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Bromomethane | U | R | 0.00145 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| n-Butylbenzene | U | | 0.000279 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| sec-Butylbenzene | U | | 0.000217 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| tert-Butylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Carbon disulfide | 0.000333 | J J | 0.000239 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Carbon tetrachloride | U | | 0.000355 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Chlorobenzene | U | | 0.000229 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Chlorodibromomethane | U | | 0.000403 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Chloroethane | U | R | 0.00102 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| Chloroform | U | | 0.000248 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| Chloromethane | U | R | 0.000406 | 0.00270 | 1 | 09/15/2017 15:43 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000326 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000260 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00114 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000371 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Dibromomethane | U | | 0.000413 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000330 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000258 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000244 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Dichlorodifluoromethane | U | R | 0.000771 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000215 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000287 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1-Dichloroethene | U | R | 0.000328 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000254 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| trans-1,2-Dichloroethene | U | R | 0.000286 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000387 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1-Dichloropropene | U | R | 0.000343 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000224 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000283 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000289 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U | UJ J0 | 0.000841 | 0.00270 | 1 | 09/15/2017 15:43 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000302 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Di-isopropyl ether | U | | 0.000268 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Ethylbenzene | U | | 0.000321 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000370 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 2-Hexanone | U | | 0.00148 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |
| n-Hexane | 0.000387 | J J | 0.000314 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Iodomethane | U | R | 0.00274 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Isopropylbenzene | U | | 0.000263 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000221 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00506 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Methylene Chloride | U | R | 0.00108 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00203 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000229 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Naphthalene | U | | 0.00108 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| n-Propylbenzene | U | | 0.000223 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Styrene | U | | 0.000253 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000286 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000395 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000395 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Tetrachloroethene | U | | 0.000299 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Toluene | U | | 0.000469 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000331 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000420 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000309 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000300 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Trichloroethene | U | | 0.000302 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000413 | 0.00541 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000801 | 0.00270 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000228 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000310 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000288 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Vinyl acetate | U | | 0.00258 | 0.0108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Vinyl chloride | U R | | 0.000315 | 0.00108 | 1 | 09/15/2017 15:43 | WG1020800 |
| Xylenes, Total | U | | 0.000755 | 0.00324 | 1 | 09/15/2017 15:43 | WG1020800 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *09/15/2017 15:43* | WG1020800 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/15/2017 15:43* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/15/2017 15:43* | WG1020800 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.2 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0112 | 0.0560 | 1 | 09/20/2017 15:30 | WG1020800 |
| Acrylonitrile | U UJ | J0 | 0.00201 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Benzene | U | | 0.000303 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Bromobenzene | U | | 0.000318 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Bromodichloromethane | U | | 0.000285 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Bromochloromethane | U | | 0.000437 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| Bromoform | U | | 0.000475 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Bromomethane | U | | 0.00150 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| n-Butylbenzene | U | | 0.000289 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| sec-Butylbenzene | U | | 0.000225 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| tert-Butylbenzene | U | | 0.000231 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Carbon disulfide | 0.000492 J | J | 0.000248 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Carbon tetrachloride | U | | 0.000368 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Chlorobenzene | U | | 0.000238 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Chlorodibromomethane | U | | 0.000418 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Chloroethane | U | | 0.00106 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| Chloroform | U | | 0.000257 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| Chloromethane | U | | 0.000420 | 0.00280 | 1 | 09/20/2017 15:30 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000337 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000269 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000384 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Dibromomethane | U | | 0.000428 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000268 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000253 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000799 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000223 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000297 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000340 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000263 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000296 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000401 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000355 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000232 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000294 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000299 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U | | 0.000872 | 0.00280 | 1 | 09/20/2017 15:30 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000313 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Di-isopropyl ether | U | | 0.000278 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Ethylbenzene | U | | 0.000333 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000383 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 2-Hexanone | U | | 0.00154 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |
| n-Hexane | 0.000472 J | J | 0.000325 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Isopropylbenzene | U | | 0.000272 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000229 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00524 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Methylene Chloride | U | | 0.00112 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00211 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000238 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Naphthalene | U | | 0.00112 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| n-Propylbenzene | U | | 0.000231 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Styrene | U | | 0.000262 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000296 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000409 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000409 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Tetrachloroethene | U | | 0.000309 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Toluene | U | | 0.000486 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000343 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000435 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000320 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000310 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Trichloroethene | U | | 0.000313 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000428 | 0.00560 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000830 | 0.00280 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000322 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000298 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Vinyl acetate | U | | 0.00268 | 0.0112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Vinyl chloride | U | | 0.000326 | 0.00112 | 1 | 09/20/2017 15:30 | WG1020800 |
| Xylenes, Total | U | | 0.000782 | 0.00336 | 1 | 09/20/2017 15:30 | WG1020800 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/20/2017 15:30* | WG1020800 |
| *(S) Dibromofluoromethane* | *115* | | | *74.0-131* | | *09/20/2017 15:30* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *112* | | | *64.0-132* | | *09/20/2017 15:30* | WG1020800 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.8 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0177 J | J | 0.0110 | 0.0551 | 1 | 09/15/2017 16:23 | WG1020800 |
| Acrylonitrile | U | | 0.00197 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Benzene | U | | 0.000297 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Bromobenzene | U | | 0.000313 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Bromochloromethane | U | | 0.000429 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| Bromoform | U | | 0.000467 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Bromomethane | U | | 0.00148 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| n-Butylbenzene | U | | 0.000284 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| sec-Butylbenzene | U | | 0.000221 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Carbon disulfide | 0.00122 | | 0.000243 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Carbon tetrachloride | U | | 0.000361 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Chlorobenzene | U | | 0.000233 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Chlorodibromomethane | U | | 0.000411 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Chloroethane | U | | 0.00104 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| Chloroform | U | | 0.000252 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| Chloromethane | U | | 0.000413 | 0.00275 | 1 | 09/15/2017 16:23 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000331 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000264 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000378 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Dibromomethane | U | | 0.000421 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000336 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000263 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000249 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000785 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000219 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000292 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000334 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000259 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000291 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000394 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000349 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000289 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000294 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000857 | 0.00275 | 1 | 09/15/2017 16:23 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000307 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Di-isopropyl ether | U | | 0.000273 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Ethylbenzene | U | | 0.000327 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000377 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |
| n-Hexane | 0.00110 J | J | 0.000319 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00515 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Methylene Chloride | U | | 0.00110 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00207 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000233 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Naphthalene | U | | 0.00110 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000291 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000402 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000402 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Tetrachloroethene | U | | 0.000304 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Toluene | U | | 0.000478 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000427 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000315 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000305 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Trichloroethene | U | | 0.000307 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000421 | 0.00551 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000816 | 0.00275 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000232 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000316 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000293 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Vinyl acetate | U | | 0.00263 | 0.0110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Vinyl chloride | U | | 0.000320 | 0.00110 | 1 | 09/15/2017 16:23 | WG1020800 |
| Xylenes, Total | U | | 0.000769 | 0.00330 | 1 | 09/15/2017 16:23 | WG1020800 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/15/2017 16:23* | WG1020800 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/15/2017 16:23* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/15/2017 16:23* | WG1020800 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.2 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0124 J | J | 0.0120 | 0.0601 | 1 | 09/15/2017 16:42 | WG1020800 |
| Acrylonitrile | U | | 0.00215 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Benzene | U | | 0.000325 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Bromobenzene | U | | 0.000341 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Bromodichloromethane | U | | 0.000305 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Bromochloromethane | U | | 0.000469 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| Bromoform | U | | 0.000510 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Bromomethane | U | | 0.00161 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| n-Butylbenzene | U | | 0.000310 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| sec-Butylbenzene | U | | 0.000242 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| tert-Butylbenzene | U | | 0.000248 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Carbon disulfide | 0.000541 J | J | 0.000266 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Carbon tetrachloride | U | | 0.000394 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Chlorobenzene | U | | 0.000255 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Chlorodibromomethane | U | | 0.000448 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Chloroethane | U | | 0.00114 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| Chloroform | U | | 0.000275 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| Chloromethane | U | | 0.000451 | 0.00301 | 1 | 09/15/2017 16:42 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000362 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000289 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000412 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Dibromomethane | U | | 0.000459 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000287 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000272 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000857 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000239 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000319 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000364 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000283 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000317 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000430 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000381 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000249 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000315 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000321 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000935 | 0.00301 | 1 | 09/15/2017 16:42 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000335 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Di-isopropyl ether | U | | 0.000298 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Ethylbenzene | U | | 0.000357 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000411 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 2-Hexanone | U | | 0.00165 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |
| n-Hexane | U | | 0.000349 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Iodomethane | U | | 0.00304 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Isopropylbenzene | U | | 0.000292 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000245 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00563 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Methylene Chloride | U | | 0.00120 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00226 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000255 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Naphthalene | U | | 0.00120 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| n-Propylbenzene | U | | 0.000248 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Styrene | U | | 0.000281 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000317 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000439 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000439 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Tetrachloroethene | U | | 0.000332 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Toluene | U | | 0.000522 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000368 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000466 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000344 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000333 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Trichloroethene | U | | 0.000335 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000459 | 0.00601 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000891 | 0.00301 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000254 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000345 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000320 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Vinyl acetate | U | | 0.00287 | 0.0120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Vinyl chloride | U | | 0.000350 | 0.00120 | 1 | 09/15/2017 16:42 | WG1020800 |
| Xylenes, Total | U | | 0.000839 | 0.00361 | 1 | 09/15/2017 16:42 | WG1020800 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/15/2017 16:42* | WG1020800 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/15/2017 16:42* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *64.0-132* | | *09/15/2017 16:42* | WG1020800 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.7 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0189 J | J | 0.0109 | 0.0545 | 1 | 09/15/2017 17:02 | WG1020800 |
| Acrylonitrile | U | | 0.00195 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Benzene | U | | 0.000295 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Bromobenzene | U | | 0.000310 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Bromodichloromethane | U | | 0.000277 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Bromochloromethane | U | | 0.000425 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| Bromoform | U | | 0.000462 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Bromomethane | U | | 0.00146 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| n-Butylbenzene | U | | 0.000281 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| sec-Butylbenzene | U | | 0.000219 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Carbon disulfide | 0.000930 J | J | 0.000241 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Carbon tetrachloride | U | | 0.000358 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Chlorobenzene | U | | 0.000231 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Chlorodibromomethane | U | | 0.000407 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Chloroethane | U | | 0.00103 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| Chloroform | U | | 0.000250 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| Chloromethane | U | | 0.000409 | 0.00273 | 1 | 09/15/2017 17:02 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000328 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000374 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Dibromomethane | U | | 0.000417 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000247 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000778 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000217 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000289 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000331 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000256 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000288 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000390 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000346 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000291 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000849 | 0.00273 | 1 | 09/15/2017 17:02 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000304 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Di-isopropyl ether | U | | 0.000271 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Ethylbenzene | U | | 0.000324 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000373 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 2-Hexanone | U | | 0.00149 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |
| n-Hexane | U | | 0.000316 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Iodomethane | U | | 0.00276 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Isopropylbenzene | U | | 0.000265 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00510 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Methylene Chloride | U | | 0.00109 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00205 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000231 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Naphthalene | U | | 0.00109 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Styrene | U | | 0.000255 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000288 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000398 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000398 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Tetrachloroethene | U | | 0.000301 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Toluene | U | | 0.000473 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000334 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000423 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000312 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000302 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Trichloroethene | U | | 0.000304 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000417 | 0.00545 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000808 | 0.00273 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000230 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000313 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000290 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Vinyl chloride | U | | 0.000317 | 0.00109 | 1 | 09/15/2017 17:02 | WG1020800 |
| Xylenes, Total | U | | 0.000761 | 0.00327 | 1 | 09/15/2017 17:02 | WG1020800 |
| *(S) Toluene-d8* | *100* | | | *80.0-120* | | *09/15/2017 17:02* | WG1020800 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/15/2017 17:02* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *09/15/2017 17:02* | WG1020800 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.4 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0124 | 0.0622 | 1 | 09/15/2017 17:22 | WG1020800 |
| Acrylonitrile | U | | 0.00223 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Benzene | U | | 0.000336 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Bromobenzene | U | | 0.000353 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Bromodichloromethane | U | | 0.000316 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Bromochloromethane | U | | 0.000485 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| Bromoform | U | | 0.000527 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Bromomethane | U | | 0.00167 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| n-Butylbenzene | U | | 0.000321 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| sec-Butylbenzene | U | | 0.000250 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| tert-Butylbenzene | U | | 0.000256 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Carbon disulfide | U | | 0.000275 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Carbon tetrachloride | U | | 0.000408 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Chlorobenzene | U | | 0.000264 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Chlorodibromomethane | U | | 0.000464 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Chloroethane | U | | 0.00118 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| Chloroform | U | | 0.000285 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| Chloromethane | U | | 0.000466 | 0.00311 | 1 | 09/15/2017 17:22 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000374 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000299 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00131 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000427 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Dibromomethane | U | | 0.000475 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000379 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000297 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000281 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000887 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000248 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000330 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000377 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000292 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000328 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000445 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000394 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000257 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000326 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000332 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U | UJ J0 | 0.000968 | 0.00311 | 1 | 09/15/2017 17:22 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000347 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Di-isopropyl ether | U | | 0.000308 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Ethylbenzene | U | | 0.000369 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000425 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 2-Hexanone | U | | 0.00170 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |
| n-Hexane | U | | 0.000361 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Iodomethane | U | | 0.00315 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Isopropylbenzene | U | | 0.000302 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000254 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00582 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Methylene Chloride | U | | 0.00124 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00234 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000264 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Naphthalene | U | | 0.00124 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| n-Propylbenzene | U | | 0.000256 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Styrene | U | | 0.000291 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000328 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000454 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000454 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Tetrachloroethene | U | | 0.000343 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Toluene | U | | 0.000540 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000381 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000483 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000356 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000345 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Trichloroethene | U | | 0.000347 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000475 | 0.00622 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000922 | 0.00311 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000262 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000357 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000331 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Vinyl acetate | U | | 0.00297 | 0.0124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Vinyl chloride | U | | 0.000362 | 0.00124 | 1 | 09/15/2017 17:22 | WG1020800 |
| Xylenes, Total | U | | 0.000868 | 0.00373 | 1 | 09/15/2017 17:22 | WG1020800 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/15/2017 17:22* | WG1020800 |
| *(S) Dibromofluoromethane* | *99.4* | | | *74.0-131* | | *09/15/2017 17:22* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/15/2017 17:22* | WG1020800 |

JC 10/16/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.5 | | 1 | 09/19/2017 13:04 | WG1021766 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0120 | 0.0598 | 1 | 09/15/2017 17:41 | WG1020800 |
| Acrylonitrile | U | | 0.00214 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Benzene | U | | 0.000323 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Bromobenzene | U | | 0.000340 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Bromodichloromethane | U | | 0.000304 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Bromochloromethane | U | | 0.000467 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| Bromoform | U | | 0.000507 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Bromomethane | U | | 0.00160 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| n-Butylbenzene | U | | 0.000309 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| sec-Butylbenzene | U | | 0.000241 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| tert-Butylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Carbon disulfide | U | | 0.000265 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Carbon tetrachloride | U | | 0.000393 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Chlorobenzene | U | | 0.000254 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Chlorodibromomethane | U | | 0.000446 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Chloroethane | U | | 0.00113 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| Chloroform | U | | 0.000274 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| Chloromethane | U | | 0.000449 | 0.00299 | 1 | 09/15/2017 17:41 | WG1020800 |
| 2-Chlorotoluene | U | | 0.000360 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 4-Chlorotoluene | U | | 0.000287 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2-Dibromoethane | U | J4 | 0.000411 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Dibromomethane | U | | 0.000457 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2-Dichlorobenzene | U | | 0.000365 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,3-Dichlorobenzene | U | | 0.000286 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,4-Dichlorobenzene | U | | 0.000271 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Dichlorodifluoromethane | U | | 0.000853 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1-Dichloroethane | U | | 0.000238 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2-Dichloroethane | U | | 0.000317 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1-Dichloroethene | U | | 0.000363 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| cis-1,2-Dichloroethene | U | | 0.000281 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| trans-1,2-Dichloroethene | U | | 0.000316 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2-Dichloropropane | U | | 0.000428 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1-Dichloropropene | U | | 0.000379 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,3-Dichloropropane | U | | 0.000248 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| cis-1,3-Dichloropropene | U | | 0.000314 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| trans-1,3-Dichloropropene | U | | 0.000320 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000931 | 0.00299 | 1 | 09/15/2017 17:41 | WG1020800 |
| 2,2-Dichloropropane | U | | 0.000334 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Di-isopropyl ether | U | | 0.000297 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Ethylbenzene | U | | 0.000355 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Hexachloro-1,3-butadiene | U | | 0.000409 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 2-Hexanone | U | | 0.00164 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |
| n-Hexane | U | | 0.000347 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Iodomethane | U | | 0.00303 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Isopropylbenzene | U | | 0.000291 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| p-Isopropyltoluene | U | | 0.000244 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 2-Butanone (MEK) | U | | 0.00560 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Methylene Chloride | U | | 0.00120 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00225 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |

JC 10/16/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000254 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Naphthalene | U | | 0.00120 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| n-Propylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Styrene | U | | 0.000280 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000316 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000437 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000437 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Tetrachloroethene | U | | 0.000330 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Toluene | U | | 0.000519 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2,3-Trichlorobenzene | U | | 0.000366 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2,4-Trichlorobenzene | U | | 0.000464 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1,1-Trichloroethane | U | | 0.000342 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,1,2-Trichloroethane | U | J4 | 0.000332 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Trichloroethene | U | | 0.000334 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Trichlorofluoromethane | U | | 0.000457 | 0.00598 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2,3-Trichloropropane | U | J4 | 0.000887 | 0.00299 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2,4-Trimethylbenzene | U | | 0.000253 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,2,3-Trimethylbenzene | U | | 0.000344 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| 1,3,5-Trimethylbenzene | U | | 0.000318 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Vinyl acetate | U | | 0.00286 | 0.0120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Vinyl chloride | U | | 0.000348 | 0.00120 | 1 | 09/15/2017 17:41 | WG1020800 |
| Xylenes, Total | U | | 0.000835 | 0.00359 | 1 | 09/15/2017 17:41 | WG1020800 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/15/2017 17:41* | WG1020800 |
| *(S) Dibromofluoromethane* | *99.8* | | | *74.0-131* | | *09/15/2017 17:41* | WG1020800 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/15/2017 17:41* | WG1020800 |

JC 10/16/17

# ANALYTICAL REPORT

September 25, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L937125 |
| Samples Received: | 09/15/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## MW-139-20 L937125-01 Solid

Collected by: Shannon McKernan | Collected date/time: 09/13/17 15:10 | Received date/time: 09/15/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1022370 | 1 | 09/20/17 14:30 | 09/20/17 14:56 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1022131 | 1 | 09/13/17 15:10 | 09/24/17 17:49 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1022131 | 30.75 | 09/13/17 15:10 | 09/25/17 13:33 | BMB |

## MW-139-31 L937125-02 Solid

Collected by: Shannon McKernan | Collected date/time: 09/13/17 16:15 | Received date/time: 09/15/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1022370 | 1 | 09/20/17 14:30 | 09/20/17 14:56 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1022131 | 1 | 09/13/17 16:15 | 09/19/17 23:50 | JHH |

## MW-139-41 L937125-03 Solid

Collected by: Shannon McKernan | Collected date/time: 09/13/17 16:40 | Received date/time: 09/15/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1022371 | 1 | 09/20/17 14:12 | 09/20/17 14:29 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1022131 | 1 | 09/13/17 16:40 | 09/20/17 00:08 | JHH |

## MW-139-51 L937125-04 Solid

Collected by: Shannon McKernan | Collected date/time: 09/13/17 17:00 | Received date/time: 09/15/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1022371 | 1 | 09/20/17 14:12 | 09/20/17 14:29 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1022131 | 1 | 09/13/17 17:00 | 09/20/17 00:25 | JHH |

## MW-139-60 L937125-05 Solid

Collected by: Shannon McKernan | Collected date/time: 09/13/17 17:05 | Received date/time: 09/15/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1022371 | 1 | 09/20/17 14:12 | 09/20/17 14:29 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1022131 | 1 | 09/13/17 17:05 | 09/20/17 00:43 | JHH |

## MW-139-70 L937125-06 Solid

Collected by: Shannon McKernan | Collected date/time: 09/13/17 18:25 | Received date/time: 09/15/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1022371 | 1 | 09/20/17 14:12 | 09/20/17 14:29 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1022131 | 1 | 09/13/17 18:25 | 09/20/17 01:00 | JHH |

## MW-139-80 L937125-07 Solid

Collected by: Shannon McKernan | Collected date/time: 09/13/17 18:40 | Received date/time: 09/15/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1022371 | 1 | 09/20/17 14:12 | 09/20/17 14:29 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1022131 | 1 | 09/13/17 18:40 | 09/24/17 18:09 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1022131 | 25 | 09/13/17 18:40 | 09/25/17 14:03 | BMB |

## MW-138-115 L937125-08 Solid

Collected by: Shannon McKernan
Collected date/time: 09/14/17 10:55
Received date/time: 09/15/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1022371 | 1 | 09/20/17 14:12 | 09/20/17 14:29 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1022131 | 1 | 09/14/17 10:55 | 09/20/17 01:35 | JHH |

## MW-138-115-W L937125-09 GW

Collected by: Shannon McKernan
Collected date/time: 09/14/17 12:00
Received date/time: 09/15/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1021889 | 1 | 09/19/17 18:06 | 09/19/17 18:06 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1021889 | 1 | 09/23/17 16:42 | 09/23/17 16:42 | DWR |

## TRIP BLANK-091417 L937125-10 GW

Collected by: Shannon McKernan
Collected date/time: 09/13/17 00:00
Received date/time: 09/15/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1021889 | 1 | 09/19/17 12:20 | 09/19/17 12:20 | LRL |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1021889 | 1 | 09/23/17 17:21 | 09/23/17 17:21 | DWR |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.4 | | 1 | 09/20/2017 14:56 | WG1022370 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0578 | 1 | 09/24/2017 17:49 | WG1022131 |
| Acrylonitrile | U | J0 | 0.00207 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Benzene | U | | 0.000312 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Bromobenzene | U | | 0.000329 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Bromochloromethane | U | | 0.000451 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 |
| Bromoform | U | | 0.000490 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Bromomethane | U | | 0.00155 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 |
| n-Butylbenzene | U | | 0.000298 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| tert-Butylbenzene | U | | 0.000238 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Carbon disulfide | 0.000485 | J | 0.000256 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Carbon tetrachloride | U | | 0.000379 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Chlorobenzene | U | | 0.000245 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Chlorodibromomethane | U | | 0.000431 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Chloroethane | U | | 0.00109 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 |
| Chloroform | U | | 0.000265 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 |
| Chloromethane | U | J0 | 0.000434 | 0.00289 | 1 | 09/24/2017 17:49 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000348 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2-Dibromoethane | U | J0 | 0.000397 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Dibromomethane | U | | 0.000442 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000276 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000261 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000825 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000351 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| cis-1,2-Dichloroethene | 0.000500 | J | 0.000272 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| trans-1,2-Dichloroethene | U | | 0.000305 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000414 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000367 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000239 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000303 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U | | 0.0276 | 0.0889 | 30.75 | 09/25/2017 13:33 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000323 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Di-isopropyl ether | U | J0 | 0.000287 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Ethylbenzene | U | | 0.000344 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Hexachloro-1,3-butadiene | U | | 0.000396 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 2-Hexanone | U | | 0.00158 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 |
| n-Hexane | U | | 0.000335 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Iodomethane | U | | 0.00293 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Isopropylbenzene | U | | 0.000281 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00541 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Methylene Chloride | U | | 0.00116 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00217 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000245 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Naphthalene | U | | 0.00116 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 |
| n-Propylbenzene | U | | 0.000238 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000305 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000422 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000422 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Tetrachloroethene | 0.0138 | J | 0.00982 | 0.0356 | 30.75 | 09/25/2017 13:33 | WG1022131 |
| Toluene | U | | 0.000502 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000449 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000320 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Trichloroethene | U | | 0.000323 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000442 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000857 | 0.00289 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000332 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Vinyl acetate | U | | 0.00276 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Vinyl chloride | 0.00397 | | 0.000337 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Xylenes, Total | U | | 0.000807 | 0.00347 | 1 | 09/24/2017 17:49 | WG1022131 |
| *(S) Toluene-d8* | *95.1* | | | *80.0-120* | | *09/25/2017 13:33* | WG1022131 |
| *(S) Toluene-d8* | *99.8* | | | *80.0-120* | | *09/24/2017 17:49* | WG1022131 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/24/2017 17:49* | WG1022131 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/25/2017 13:33* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/25/2017 13:33* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/24/2017 17:49* | WG1022131 |

**Sample Narrative:**

L937125-01 WG1022131: Elevated RL. Bisulfate vials overweight, reported from MEOH vial.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.5 | | 1 | 09/20/2017 14:56 | WG1022370 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0107 | 0.0535 | 1 | 09/19/2017 23:50 | WG1022131 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Benzene | U | | 0.000289 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Bromobenzene | U | | 0.000304 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Bromochloromethane | U | | 0.000417 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| Bromoform | U | J0 | 0.000454 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Bromomethane | U | | 0.00143 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Carbon disulfide | 0.000694 | J | 0.000236 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Carbon tetrachloride | U | | 0.000351 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Chloroethane | U | | 0.00101 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| Chloroform | U | | 0.000245 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| Chloromethane | U | | 0.000401 | 0.00267 | 1 | 09/19/2017 23:50 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2-Dibromoethane | U | | 0.000367 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Dibromomethane | U | | 0.000409 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000763 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| cis-1,2-Dichloroethene | 0.00814 | | 0.000251 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| trans-1,2-Dichloroethene | U | | 0.000282 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000280 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000832 | 0.00267 | 1 | 09/19/2017 23:50 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000298 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Di-isopropyl ether | U | | 0.000265 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Hexachloro-1,3-butadiene | U | J0 | 0.000366 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |
| n-Hexane | U | | 0.000310 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00501 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Methylene Chloride | U | | 0.00107 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Naphthalene | U | | 0.00107 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000282 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000391 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000391 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Tetrachloroethene | 0.00308 | | 0.000295 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Toluene | U | | 0.000464 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000415 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000296 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Trichloroethene | 0.000467 | J | 0.000298 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000409 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000793 | 0.00267 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000307 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Vinyl chloride | 0.00139 | | 0.000311 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Xylenes, Total | U | | 0.000747 | 0.00321 | 1 | 09/19/2017 23:50 | WG1022131 |
| *(S) Toluene-d8* | *97.9* | | | *80.0-120* | | *09/19/2017 23:50* | WG1022131 |
| *(S) Dibromofluoromethane* | *115* | | | *74.0-131* | | *09/19/2017 23:50* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/19/2017 23:50* | WG1022131 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.1 | | 1 | 09/20/2017 14:29 | WG1022371 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0153 | J JO | 0.0107 | 0.0537 | 1 | 09/20/2017 00:08 | WG1022131 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Benzene | U | | 0.000290 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Bromobenzene | U | | 0.000305 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Bromodichloromethane | U | | 0.000273 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Bromochloromethane | U | | 0.000419 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| Bromoform | U | JO | 0.000455 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Bromomethane | U | | 0.00144 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| n-Butylbenzene | U | | 0.000277 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| sec-Butylbenzene | U | | 0.000216 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Carbon disulfide | 0.00149 | | 0.000237 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Carbon tetrachloride | U | | 0.000352 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Chlorobenzene | U | | 0.000228 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Chlorodibromomethane | U | | 0.000401 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Chloroethane | U | | 0.00102 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| Chloroform | U | | 0.000246 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| Chloromethane | U | | 0.000403 | 0.00269 | 1 | 09/20/2017 00:08 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000323 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000258 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2-Dibromoethane | U | | 0.000368 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Dibromomethane | U | | 0.000410 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000766 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000325 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| cis-1,2-Dichloroethene | 0.0982 | | 0.000252 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| trans-1,2-Dichloroethene | 0.000407 | J | 0.000284 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000385 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000340 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000287 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U | JO | 0.000836 | 0.00269 | 1 | 09/20/2017 00:08 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Di-isopropyl ether | U | | 0.000266 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Ethylbenzene | U | | 0.000319 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Hexachloro-1,3-butadiene | U | JO | 0.000367 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |
| n-Hexane | 0.00158 | J | 0.000311 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Iodomethane | U | | 0.00272 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Isopropylbenzene | U | | 0.000261 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000219 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00503 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Methylene Chloride | U | | 0.00107 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Naphthalene | U | | 0.00107 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000392 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000392 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Tetrachloroethene | 0.0126 | | 0.000296 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Toluene | U | | 0.000466 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000329 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000417 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000307 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Trichloroethene | 0.00100 | J | 0.000300 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000410 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000796 | 0.00269 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000308 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Vinyl acetate | U | | 0.00257 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Vinyl chloride | 0.00209 | | 0.000313 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Xylenes, Total | U | | 0.000750 | 0.00322 | 1 | 09/20/2017 00:08 | WG1022131 |
| *(S) Toluene-d8* | *93.7* | | | *80.0-120* | | *09/20/2017 00:08* | WG1022131 |
| *(S) Dibromofluoromethane* | *117* | | | *74.0-131* | | *09/20/2017 00:08* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/20/2017 00:08* | WG1022131 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.7 | | 1 | 09/20/2017 14:29 | WG1022371 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0147 | J JO | 0.0115 | 0.0577 | 1 | 09/20/2017 00:25 | WG1022131 |
| Acrylonitrile | U | | 0.00207 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Benzene | U | | 0.000312 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Bromobenzene | U | | 0.000328 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Bromodichloromethane | U | | 0.000293 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Bromochloromethane | U | | 0.000450 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| Bromoform | U | JO | 0.000489 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Bromomethane | U | | 0.00155 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| n-Butylbenzene | U | | 0.000298 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| sec-Butylbenzene | U | | 0.000232 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| tert-Butylbenzene | U | | 0.000238 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Carbon disulfide | 0.000918 | J | 0.000255 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Carbon tetrachloride | U | | 0.000378 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Chlorobenzene | U | | 0.000245 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Chlorodibromomethane | U | | 0.000430 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Chloroethane | U | | 0.00109 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| Chloroform | U | | 0.000264 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| Chloromethane | U | | 0.000433 | 0.00288 | 1 | 09/20/2017 00:25 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000347 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000277 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2-Dibromoethane | U | | 0.000396 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Dibromomethane | U | | 0.000441 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000276 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000261 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000823 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000306 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000350 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| cis-1,2-Dichloroethene | 0.000763 | J | 0.000271 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| trans-1,2-Dichloroethene | U | | 0.000305 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000413 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000366 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000239 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000302 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000308 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U | JO | 0.000898 | 0.00288 | 1 | 09/20/2017 00:25 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000322 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Di-isopropyl ether | U | | 0.000286 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Ethylbenzene | U | | 0.000343 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Hexachloro-1,3-butadiene | U | JO | 0.000395 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |
| n-Hexane | 0.000675 | J | 0.000335 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Iodomethane | U | | 0.00292 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00540 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Methylene Chloride | U | | 0.00115 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00217 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000245 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Naphthalene | U | | 0.00115 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| n-Propylbenzene | U | | 0.000238 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Styrene | U | | 0.000270 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000305 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000421 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000421 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Tetrachloroethene | 0.000397 | J | 0.000318 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Toluene | U | | 0.000501 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000353 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000448 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000330 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000320 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Trichloroethene | U | | 0.000322 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000441 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000855 | 0.00288 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000243 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000331 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000307 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Vinyl acetate | U | | 0.00276 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Vinyl chloride | U | | 0.000336 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Xylenes, Total | U | | 0.000805 | 0.00346 | 1 | 09/20/2017 00:25 | WG1022131 |
| *(S) Toluene-d8* | *93.3* | | | *80.0-120* | | *09/20/2017 00:25* | WG1022131 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/20/2017 00:25* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *09/20/2017 00:25* | WG1022131 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.1 | | 1 | 09/20/2017 14:29 | WG1022371 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0107 | 0.0537 | 1 | 09/20/2017 00:43 | WG1022131 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Benzene | U | | 0.000290 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Bromobenzene | U | | 0.000305 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Bromodichloromethane | U | | 0.000273 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Bromochloromethane | U | | 0.000419 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| Bromoform | U | J0 | 0.000455 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Bromomethane | U | | 0.00144 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| n-Butylbenzene | U | | 0.000277 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| sec-Butylbenzene | U | | 0.000216 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Carbon disulfide | 0.000528 | J | 0.000237 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Carbon tetrachloride | U | | 0.000352 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Chlorobenzene | U | | 0.000228 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Chlorodibromomethane | U | | 0.000401 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Chloroethane | U | | 0.00102 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| Chloroform | U | | 0.000246 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| Chloromethane | U | | 0.000403 | 0.00268 | 1 | 09/20/2017 00:43 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000323 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000258 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2-Dibromoethane | U | | 0.000368 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Dibromomethane | U | | 0.000410 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000766 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000325 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| cis-1,2-Dichloroethene | U | | 0.000252 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| trans-1,2-Dichloroethene | U | | 0.000284 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000384 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000340 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000287 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000836 | 0.00268 | 1 | 09/20/2017 00:43 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Di-isopropyl ether | U | | 0.000266 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Ethylbenzene | U | | 0.000319 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Hexachloro-1,3-butadiene | U | J0 | 0.000367 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |
| n-Hexane | U | | 0.000311 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Iodomethane | U | | 0.00272 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Isopropylbenzene | U | | 0.000261 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000219 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00503 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Methylene Chloride | U | | 0.00107 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Naphthalene | U | | 0.00107 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000392 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000392 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Tetrachloroethene | U | | 0.000296 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Toluene | U | | 0.000466 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000329 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000417 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000307 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000297 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Trichloroethene | U | | 0.000300 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000410 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000796 | 0.00268 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000308 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Vinyl acetate | U | | 0.00257 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Vinyl chloride | U | | 0.000313 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Xylenes, Total | U | | 0.000750 | 0.00322 | 1 | 09/20/2017 00:43 | WG1022131 |
| *(S) Toluene-d8* | *94.4* | | | *80.0-120* | | *09/20/2017 00:43* | WG1022131 |
| *(S) Dibromofluoromethane* | *113* | | | *74.0-131* | | *09/20/2017 00:43* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/20/2017 00:43* | WG1022131 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.8 | | 1 | 09/20/2017 14:29 | WG1022371 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0118 | J JO | 0.0118 | 0.0590 | 1 | 09/20/2017 01:00 | WG1022131 |
| Acrylonitrile | U | | 0.00211 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Benzene | U | | 0.000319 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Bromobenzene | U | | 0.000335 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Bromodichloromethane | U | | 0.000300 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Bromochloromethane | U | | 0.000460 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| Bromoform | U | JO | 0.000500 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Bromomethane | U | | 0.00158 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| n-Butylbenzene | U | | 0.000304 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| sec-Butylbenzene | U | | 0.000237 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| tert-Butylbenzene | U | | 0.000243 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Carbon disulfide | 0.000621 | J | 0.000261 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Carbon tetrachloride | U | | 0.000387 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Chlorobenzene | U | | 0.000250 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Chlorodibromomethane | U | | 0.000440 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Chloroethane | U | | 0.00112 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| Chloroform | U | | 0.000270 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| Chloromethane | U | | 0.000442 | 0.00295 | 1 | 09/20/2017 01:00 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000355 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000283 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2-Dibromoethane | U | | 0.000405 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Dibromomethane | U | | 0.000451 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000360 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000282 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000267 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000841 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000235 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000313 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000358 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| cis-1,2-Dichloroethene | U | | 0.000277 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| trans-1,2-Dichloroethene | U | | 0.000312 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000422 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000374 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000244 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000309 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000315 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U | JO | 0.000918 | 0.00295 | 1 | 09/20/2017 01:00 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000329 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Di-isopropyl ether | U | | 0.000293 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Ethylbenzene | U | | 0.000350 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Hexachloro-1,3-butadiene | U | JO | 0.000404 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 2-Hexanone | U | | 0.00162 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |
| n-Hexane | U | | 0.000342 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Iodomethane | U | | 0.00299 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Isopropylbenzene | U | | 0.000287 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000241 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00552 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Methylene Chloride | U | | 0.00118 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00222 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000250 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Naphthalene | U | | 0.00118 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Styrene | U | | 0.000276 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000312 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000431 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000431 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Tetrachloroethene | U | | 0.000326 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Toluene | U | | 0.000512 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000361 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000458 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000337 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000327 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Trichloroethene | U | | 0.000329 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000451 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000874 | 0.00295 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000339 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000314 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Vinyl chloride | U | | 0.000343 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Xylenes, Total | U | | 0.000824 | 0.00354 | 1 | 09/20/2017 01:00 | WG1022131 |
| *(S) Toluene-d8* | *93.8* | | | *80.0-120* | | *09/20/2017 01:00* | WG1022131 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/20/2017 01:00* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/20/2017 01:00* | WG1022131 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.5 | | 1 | 09/20/2017 14:29 | WG1022371 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0113 | 0.0565 | 1 | 09/24/2017 18:09 | WG1022131 |
| Acrylonitrile | U | J0 | 0.00202 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Benzene | U | | 0.000305 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Bromobenzene | U | | 0.000321 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Bromodichloromethane | U | | 0.000287 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Bromochloromethane | U | | 0.000441 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| Bromoform | U | | 0.000479 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Bromomethane | U | | 0.00151 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| n-Butylbenzene | U | | 0.000292 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| sec-Butylbenzene | U | | 0.000227 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| tert-Butylbenzene | U | | 0.000233 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Carbon disulfide | 0.000551 | J | 0.000250 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Carbon tetrachloride | U | | 0.000371 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Chlorobenzene | U | | 0.000240 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Chlorodibromomethane | U | | 0.000421 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Chloroethane | U | | 0.00107 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| Chloroform | U | | 0.000259 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| Chloromethane | U | J0 | 0.000424 | 0.00283 | 1 | 09/24/2017 18:09 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000340 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000271 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2-Dibromoethane | U | J0 | 0.000388 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Dibromomethane | U | | 0.000432 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000270 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000255 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000806 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000299 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000342 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| cis-1,2-Dichloroethene | U | | 0.000266 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| trans-1,2-Dichloroethene | U | | 0.000298 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000405 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000358 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000296 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000302 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U | | 0.0219 | 0.0706 | 25 | 09/25/2017 14:03 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000315 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Di-isopropyl ether | U | J0 | 0.000280 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Ethylbenzene | U | | 0.000336 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Hexachloro-1,3-butadiene | U | | 0.000386 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |
| n-Hexane | U | | 0.000328 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Iodomethane | U | | 0.00286 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Isopropylbenzene | U | | 0.000275 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000231 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00529 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Methylene Chloride | U | | 0.00113 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00212 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000240 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Naphthalene | U | | 0.00113 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| n-Propylbenzene | U | | 0.000233 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Styrene | U | | 0.000264 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000298 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000412 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000412 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Tetrachloroethene | U | | 0.00780 | 0.0283 | 25 | 09/25/2017 14:03 | WG1022131 |
| Toluene | U | | 0.000490 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000438 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000323 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000313 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Trichloroethene | U | | 0.000315 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000432 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000837 | 0.00283 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000238 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000324 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000301 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Vinyl acetate | U | | 0.00270 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Vinyl chloride | U | | 0.000329 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Xylenes, Total | U | | 0.000789 | 0.00339 | 1 | 09/24/2017 18:09 | WG1022131 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *09/24/2017 18:09* | WG1022131 |
| *(S) Toluene-d8* | *94.2* | | | *80.0-120* | | *09/25/2017 14:03* | WG1022131 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/25/2017 14:03* | WG1022131 |
| *(S) Dibromofluoromethane* | *97.2* | | | *74.0-131* | | *09/24/2017 18:09* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/24/2017 18:09* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/25/2017 14:03* | WG1022131 |

**Sample Narrative:**

L937125-07 WG1022131: Elevated RL. Bisulfate vials overweight, reported from MEOH vial.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.3 | | 1 | 09/20/2017 14:29 | WG1022371 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.0116 | 0.0579 | 1 | 09/20/2017 01:35 | WG1022131 |
| Acrylonitrile | U | | 0.00207 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Bromobenzene | U | | 0.000329 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Bromochloromethane | U | | 0.000452 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| Bromoform | U | J0 | 0.000491 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Bromomethane | U | | 0.00155 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Carbon disulfide | U | | 0.000256 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Carbon tetrachloride | U | | 0.000380 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Chlorodibromomethane | U | | 0.000432 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Chloroethane | U | | 0.00110 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| Chloroform | U | | 0.000265 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| Chloromethane | U | | 0.000434 | 0.00290 | 1 | 09/20/2017 01:35 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2-Dibromoethane | U | | 0.000397 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000826 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000351 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| cis-1,2-Dichloroethene | U | | 0.000272 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| trans-1,2-Dichloroethene | U | | 0.000306 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000415 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000367 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000303 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.000901 | 0.00290 | 1 | 09/20/2017 01:35 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000323 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Di-isopropyl ether | U | | 0.000287 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Ethylbenzene | U | | 0.000344 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Hexachloro-1,3-butadiene | U | | 0.000396 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 2-Hexanone | U | J0 | 0.00159 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |
| n-Hexane | U | | 0.000336 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Iodomethane | U | | 0.00293 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Isopropylbenzene | U | | 0.000281 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00542 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Methylene Chloride | U | | 0.00116 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Naphthalene | U | | 0.00116 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000423 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000423 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Toluene | U | | 0.000503 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000449 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Trichloroethene | U | | 0.000323 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000858 | 0.00290 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000332 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Vinyl chloride | U | | 0.000337 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Xylenes, Total | U | | 0.000809 | 0.00348 | 1 | 09/20/2017 01:35 | WG1022131 |
| *(S) Toluene-d8* | *94.5* | | | *80.0-120* | | *09/20/2017 01:35* | WG1022131 |
| *(S) Dibromofluoromethane* | *113* | | | *74.0-131* | | *09/20/2017 01:35* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/20/2017 01:35* | WG1022131 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 6.20 | B J | 1.05 | 25.0 | 1 | 09/19/2017 18:06 | WG1021889 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| Benzene | 0.275 | J | 0.0896 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Chloromethane | 0.489 | J | 0.153 | 1.25 | 1 | 09/19/2017 18:06 | WG1021889 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/23/2017 16:42 | WG1021889 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| n-Hexane | 0.707 | J | 0.305 | 5.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/19/2017 18:06 | WG1021889 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 2-Butanone (MEK) | 1.50 | J | 1.28 | 5.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Toluene | 10.4 | | 0.412 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/23/2017 16:42* | WG1021889 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/19/2017 18:06* | WG1021889 |
| *(S) Dibromofluoromethane* | *97.7* | | | *76.0-123* | | *09/23/2017 16:42* | WG1021889 |
| *(S) Dibromofluoromethane* | *98.0* | | | *76.0-123* | | *09/19/2017 18:06* | WG1021889 |
| *(S) 4-Bromofluorobenzene* | *95.2* | | | *80.0-120* | | *09/19/2017 18:06* | WG1021889 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *09/23/2017 16:42* | WG1021889 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 1.39 | B J | 1.05 | 25.0 | 1 | 09/19/2017 12:20 | WG1021889 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/19/2017 12:20 | WG1021889 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/23/2017 17:21 | WG1021889 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/19/2017 12:20 | WG1021889 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/23/2017 17:21* | WG1021889 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/19/2017 12:20* | WG1021889 |
| *(S) Dibromofluoromethane* | *99.9* | | | *76.0-123* | | *09/23/2017 17:21* | WG1021889 |
| *(S) Dibromofluoromethane* | *99.7* | | | *76.0-123* | | *09/19/2017 12:20* | WG1021889 |
| *(S) 4-Bromofluorobenzene* | *98.3* | | | *80.0-120* | | *09/23/2017 17:21* | WG1021889 |
| *(S) 4-Bromofluorobenzene* | *91.8* | | | *80.0-120* | | *09/19/2017 12:20* | WG1021889 |

## Method Blank (MB)

(MB) R3250966-1 09/20/17 14:56

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00130 | | | |

## L936877-08 Original Sample (OS) • Duplicate (DUP)

(OS) L936877-08 09/20/17 14:56 • (DUP) R3250966-3 09/20/17 14:56

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 97.2 | 97.2 | 1 | 0.0217 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3250966-2 09/20/17 14:56

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3250965-1 09/20/17 14:29

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000800 | | | |

## L937125-03 Original Sample (OS) • Duplicate (DUP)

(OS) L937125-03 09/20/17 14:29 • (DUP) R3250965-3 09/20/17 14:29

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 93.1 | 92.5 | 1 | 0.696 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3250965-2 09/20/17 14:29

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3251721-3 09/19/17 10:56

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | 1.35 | J | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| Chloroform | U | | 0.0860 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3251721-3 09/19/17 10:56

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | 0.164 | J | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Toluene | U | | 0.412 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *97.6* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *95.0* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3251721-1 09/19/17 09:04 • (LCSD) R3251721-2 09/19/17 09:26

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 124 | 127 | 99.0 | 102 | 10.0-160 | | | 2.94 | 23 |
| Acrylonitrile | 125 | 123 | 133 | 98.5 | 106 | 60.0-142 | | | 7.72 | 20 |
| Benzene | 25.0 | 24.7 | 24.6 | 98.8 | 98.6 | 69.0-123 | | | 0.260 | 20 |
| Bromobenzene | 25.0 | 22.6 | 23.3 | 90.6 | 93.1 | 79.0-120 | | | 2.71 | 20 |
| Bromodichloromethane | 25.0 | 24.3 | 24.5 | 97.2 | 98.1 | 76.0-120 | | | 0.900 | 20 |
| Bromochloromethane | 25.0 | 25.1 | 25.7 | 100 | 103 | 76.0-122 | | | 2.19 | 20 |
| Bromoform | 25.0 | 25.5 | 25.9 | 102 | 104 | 67.0-132 | | | 1.46 | 20 |
| Bromomethane | 25.0 | 27.2 | 26.7 | 109 | 107 | 18.0-160 | | | 2.15 | 20 |
| n-Butylbenzene | 25.0 | 24.4 | 25.1 | 97.6 | 101 | 72.0-126 | | | 3.02 | 20 |
| sec-Butylbenzene | 25.0 | 24.5 | 25.2 | 97.9 | 101 | 74.0-121 | | | 3.07 | 20 |
| tert-Butylbenzene | 25.0 | 24.3 | 24.9 | 97.1 | 99.7 | 75.0-122 | | | 2.66 | 20 |
| Carbon disulfide | 25.0 | 25.9 | 26.1 | 104 | 105 | 55.0-127 | | | 0.850 | 20 |
| Carbon tetrachloride | 25.0 | 25.3 | 24.9 | 101 | 99.5 | 63.0-122 | | | 1.50 | 20 |
| Chlorobenzene | 25.0 | 25.4 | 25.9 | 102 | 103 | 79.0-121 | | | 1.74 | 20 |
| Chlorodibromomethane | 25.0 | 27.0 | 26.9 | 108 | 108 | 75.0-125 | | | 0.410 | 20 |
| Chloroethane | 25.0 | 27.7 | 27.8 | 111 | 111 | 47.0-152 | | | 0.0900 | 20 |
| Chloromethane | 25.0 | 26.5 | 26.7 | 106 | 107 | 48.0-139 | | | 0.780 | 20 |
| 2-Chlorotoluene | 25.0 | 23.3 | 24.0 | 93.3 | 96.1 | 74.0-122 | | | 2.91 | 20 |
| 4-Chlorotoluene | 25.0 | 22.9 | 23.8 | 91.5 | 95.1 | 79.0-120 | | | 3.80 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 25.5 | 25.9 | 102 | 103 | 64.0-127 | | | 1.19 | 20 |
| 1,2-Dibromoethane | 25.0 | 25.3 | 25.7 | 101 | 103 | 77.0-123 | | | 1.23 | 20 |
| Dibromomethane | 25.0 | 24.9 | 25.3 | 99.6 | 101 | 78.0-120 | | | 1.76 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 24.6 | 25.1 | 98.4 | 100 | 80.0-120 | | | 1.97 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 24.2 | 25.0 | 96.9 | 99.8 | 72.0-123 | | | 2.95 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 24.2 | 24.7 | 96.9 | 98.6 | 77.0-120 | | | 1.70 | 20 |
| Dichlorodifluoromethane | 25.0 | 31.2 | 31.7 | 125 | 127 | 49.0-155 | | | 1.62 | 20 |
| 1,1-Dichloroethane | 25.0 | 25.0 | 24.8 | 99.8 | 99.3 | 70.0-126 | | | 0.490 | 20 |
| 1,1-Dichloroethene | 25.0 | 25.5 | 25.3 | 102 | 101 | 64.0-129 | | | 0.740 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 25.4 | 25.2 | 102 | 101 | 71.0-121 | | | 0.760 | 20 |
| 1,2-Dichloropropane | 25.0 | 24.7 | 25.0 | 98.9 | 99.9 | 75.0-125 | | | 1.01 | 20 |
| 1,1-Dichloropropene | 25.0 | 25.6 | 25.6 | 102 | 102 | 71.0-129 | | | 0.0600 | 20 |
| 1,3-Dichloropropane | 25.0 | 25.4 | 25.6 | 102 | 102 | 80.0-121 | | | 0.820 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 25.8 | 26.4 | 103 | 105 | 79.0-123 | | | 2.15 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 25.6 | 25.9 | 102 | 104 | 74.0-127 | | | 1.33 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 19.0 | 20.8 | 75.9 | 83.0 | 55.0-134 | | | 8.91 | 20 |
| 2,2-Dichloropropane | 25.0 | 26.5 | 25.8 | 106 | 103 | 60.0-125 | | | 2.66 | 20 |
| Di-isopropyl ether | 25.0 | 24.2 | 24.2 | 96.8 | 96.6 | 59.0-133 | | | 0.180 | 20 |
| Ethylbenzene | 25.0 | 25.2 | 25.4 | 101 | 101 | 77.0-120 | | | 0.570 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 23.5 | 25.9 | 93.9 | 104 | 64.0-131 | | | 9.98 | 20 |
| 2-Hexanone | 125 | 134 | 136 | 107 | 109 | 58.0-147 | | | 1.50 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3251721-1 09/19/17 09:04 • (LCSD) R3251721-2 09/19/17 09:26

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| n-Hexane | 25.0 | 25.6 | 25.7 | 103 | 103 | 56.0-124 | | | 0.210 | 20 |
| Iodomethane | 125 | 128 | 128 | 102 | 103 | 57.0-140 | | | 0.110 | 20 |
| Isopropylbenzene | 25.0 | 23.7 | 24.2 | 94.8 | 96.7 | 75.0-120 | | | 2.05 | 20 |
| p-Isopropyltoluene | 25.0 | 25.1 | 25.8 | 100 | 103 | 74.0-126 | | | 2.82 | 20 |
| 2-Butanone (MEK) | 125 | 116 | 120 | 92.7 | 95.9 | 37.0-158 | | | 3.32 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 125 | 124 | 99.9 | 99.6 | 59.0-143 | | | 0.380 | 20 |
| Methyl tert-butyl ether | 25.0 | 24.8 | 24.9 | 99.0 | 99.6 | 64.0-123 | | | 0.610 | 20 |
| Naphthalene | 25.0 | 23.3 | 24.6 | 93.2 | 98.3 | 62.0-128 | | | 5.30 | 20 |
| n-Propylbenzene | 25.0 | 23.4 | 24.2 | 93.8 | 96.9 | 79.0-120 | | | 3.25 | 20 |
| Chloroform | 25.0 | 24.8 | 24.7 | 99.0 | 98.8 | 72.0-121 | | | 0.300 | 20 |
| Styrene | 25.0 | 23.8 | 24.5 | 95.1 | 97.9 | 78.0-124 | | | 3.00 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 25.9 | 26.0 | 103 | 104 | 75.0-122 | | | 0.570 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 23.3 | 23.9 | 93.4 | 95.8 | 71.0-122 | | | 2.54 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 26.3 | 26.7 | 105 | 107 | 61.0-136 | | | 1.25 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 23.2 | 25.0 | 92.9 | 99.9 | 61.0-133 | | | 7.27 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 23.5 | 24.7 | 93.8 | 98.7 | 69.0-129 | | | 5.03 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 25.4 | 25.6 | 101 | 102 | 68.0-122 | | | 0.780 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 24.7 | 25.2 | 98.8 | 101 | 78.0-120 | | | 2.07 | 20 |
| Trichlorofluoromethane | 25.0 | 27.5 | 27.6 | 110 | 110 | 56.0-137 | | | 0.550 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 23.5 | 24.2 | 94.1 | 96.9 | 72.0-124 | | | 2.97 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 23.1 | 23.7 | 92.3 | 94.9 | 75.0-120 | | | 2.77 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 24.2 | 24.5 | 96.9 | 98.0 | 75.0-120 | | | 1.10 | 20 |
| 1,2-Dichloroethane | 25.0 | 25.0 | 25.1 | 99.8 | 100 | 67.0-126 | | | 0.480 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 23.6 | 24.2 | 94.3 | 96.9 | 75.0-120 | | | 2.72 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 24.6 | 24.6 | 98.6 | 98.2 | 73.0-120 | | | 0.340 | 20 |
| Vinyl acetate | 125 | 135 | 135 | 108 | 108 | 46.0-160 | | | 0.310 | 20 |
| Xylenes, Total | 75.0 | 75.8 | 76.3 | 101 | 102 | 77.0-120 | | | 0.660 | 20 |
| Methylene Chloride | 25.0 | 24.2 | 24.1 | 96.9 | 96.5 | 66.0-121 | | | 0.400 | 20 |
| Tetrachloroethene | 25.0 | 26.3 | 26.1 | 105 | 104 | 70.0-127 | | | 0.780 | 20 |
| Toluene | 25.0 | 24.8 | 25.0 | 99.0 | 100 | 77.0-120 | | | 1.03 | 20 |
| Trichloroethene | 25.0 | 25.6 | 25.8 | 102 | 103 | 78.0-120 | | | 0.600 | 20 |
| Vinyl chloride | 25.0 | 28.1 | 28.2 | 112 | 113 | 64.0-133 | | | 0.360 | 20 |
| *(S) Toluene-d8* | | | | *103* | *103* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *100* | *99.8* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *93.6* | *95.7* | *80.0-120* | | | | |

## L936800-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L936800-03 09/19/17 18:27 • (MS) R3251721-4 09/19/17 18:48 • (MSD) R3251721-5 09/19/17 19:10

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | ND | 57.7 | 64.0 | 46.1 | 51.2 | 1 | 10.0-139 | | | 10.4 | 25 |
| Acrylonitrile | 125 | ND | 60.0 | 69.8 | 48.0 | 55.8 | 1 | 46.0-159 | | | 15.1 | 23 |
| Benzene | 25.0 | ND | 13.2 | 15.0 | 52.6 | 60.1 | 1 | 34.0-147 | | | 13.2 | 20 |
| Bromobenzene | 25.0 | ND | 12.1 | 14.2 | 47.8 | 56.1 | 1 | 51.0-137 | J6 | | 15.9 | 20 |
| Bromodichloromethane | 25.0 | ND | 12.6 | 14.3 | 50.3 | 57.1 | 1 | 52.0-135 | J6 | | 12.6 | 20 |
| Bromochloromethane | 25.0 | ND | 13.3 | 15.2 | 53.3 | 60.8 | 1 | 53.0-138 | | | 13.1 | 20 |
| Bromoform | 25.0 | ND | 12.6 | 14.7 | 50.6 | 59.0 | 1 | 50.0-146 | | | 15.3 | 20 |
| Bromomethane | 25.0 | ND | 14.0 | 16.3 | 56.0 | 65.1 | 1 | 10.0-160 | | | 15.1 | 23 |
| n-Butylbenzene | 25.0 | ND | 12.8 | 15.0 | 51.1 | 59.9 | 1 | 50.0-144 | | | 15.7 | 20 |
| sec-Butylbenzene | 25.0 | ND | 13.0 | 15.1 | 52.0 | 60.3 | 1 | 48.0-143 | | | 14.8 | 20 |
| tert-Butylbenzene | 25.0 | ND | 12.8 | 14.8 | 51.3 | 59.4 | 1 | 50.0-142 | | | 14.6 | 20 |
| Carbon disulfide | 25.0 | ND | 13.6 | 15.7 | 54.2 | 62.7 | 1 | 10.0-147 | | | 14.4 | 20 |
| Carbon tetrachloride | 25.0 | ND | 13.5 | 15.0 | 54.0 | 59.8 | 1 | 41.0-138 | | | 10.2 | 20 |
| Chlorobenzene | 25.0 | ND | 13.5 | 15.7 | 54.0 | 62.7 | 1 | 52.0-141 | | | 14.9 | 20 |
| Chlorodibromomethane | 25.0 | ND | 13.9 | 15.7 | 55.6 | 62.8 | 1 | 54.0-142 | | | 12.2 | 20 |
| Chloroethane | 25.0 | ND | 14.7 | 17.0 | 58.9 | 68.1 | 1 | 23.0-160 | | | 14.5 | 20 |
| Chloromethane | 25.0 | ND | 13.9 | 16.1 | 55.5 | 64.6 | 1 | 14.0-151 | | | 15.1 | 20 |
| 2-Chlorotoluene | 25.0 | ND | 12.4 | 14.4 | 49.4 | 57.4 | 1 | 48.0-142 | | | 14.9 | 20 |
| 4-Chlorotoluene | 25.0 | ND | 12.4 | 14.4 | 49.7 | 57.5 | 1 | 52.0-139 | J6 | | 14.5 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | ND | 12.5 | 14.4 | 49.9 | 57.6 | 1 | 49.0-144 | | | 14.3 | 24 |
| 1,2-Dibromoethane | 25.0 | ND | 13.1 | 15.3 | 52.3 | 61.2 | 1 | 54.0-140 | J6 | | 15.6 | 20 |
| Dibromomethane | 25.0 | ND | 13.0 | 14.8 | 51.9 | 59.3 | 1 | 53.0-138 | J6 | | 13.3 | 20 |
| 1,2-Dichlorobenzene | 25.0 | ND | 13.2 | 15.3 | 52.6 | 61.0 | 1 | 56.0-139 | J6 | | 14.8 | 20 |
| 1,3-Dichlorobenzene | 25.0 | ND | 13.0 | 14.9 | 51.9 | 59.4 | 1 | 50.0-141 | | | 13.5 | 20 |
| 1,4-Dichlorobenzene | 25.0 | ND | 12.9 | 15.0 | 51.8 | 60.0 | 1 | 53.0-136 | J6 | | 14.6 | 20 |
| Dichlorodifluoromethane | 25.0 | ND | 15.9 | 18.2 | 63.8 | 72.9 | 1 | 20.0-160 | | | 13.3 | 21 |
| 1,1-Dichloroethane | 25.0 | ND | 13.6 | 15.4 | 54.3 | 61.4 | 1 | 47.0-143 | | | 12.4 | 20 |
| 1,1-Dichloroethene | 25.0 | ND | 14.3 | 16.3 | 57.0 | 65.2 | 1 | 31.0-148 | | | 13.4 | 20 |
| trans-1,2-Dichloroethene | 25.0 | ND | 14.2 | 16.4 | 54.7 | 63.5 | 1 | 36.0-141 | | | 14.5 | 20 |
| 1,2-Dichloropropane | 25.0 | ND | 13.0 | 14.6 | 52.0 | 58.4 | 1 | 51.0-141 | | | 11.7 | 20 |
| 1,1-Dichloropropene | 25.0 | ND | 13.8 | 15.7 | 55.0 | 62.9 | 1 | 42.0-146 | | | 13.4 | 20 |
| 1,3-Dichloropropane | 25.0 | ND | 13.3 | 15.2 | 53.1 | 60.9 | 1 | 58.0-139 | J6 | | 13.8 | 20 |
| cis-1,3-Dichloropropene | 25.0 | ND | 13.1 | 15.2 | 52.5 | 61.0 | 1 | 53.0-139 | J6 | | 15.0 | 20 |
| trans-1,3-Dichloropropene | 25.0 | ND | 12.7 | 14.9 | 50.7 | 59.6 | 1 | 51.0-143 | J6 | | 16.2 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | ND | 7.35 | 9.31 | 29.4 | 37.2 | 1 | 40.0-150 | J6 | J3 J6 | 23.5 | 21 |
| 2,2-Dichloropropane | 25.0 | ND | 13.4 | 15.4 | 53.7 | 61.6 | 1 | 43.0-139 | | | 13.7 | 20 |
| Di-isopropyl ether | 25.0 | ND | 12.1 | 13.9 | 48.6 | 55.5 | 1 | 44.0-144 | | | 13.2 | 20 |
| Ethylbenzene | 25.0 | ND | 13.3 | 15.3 | 53.2 | 61.3 | 1 | 42.0-147 | | | 14.2 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | ND | 11.4 | 14.4 | 45.8 | 57.5 | 1 | 44.0-146 | | J3 | 22.8 | 21 |
| 2-Hexanone | 125 | ND | 61.2 | 70.7 | 48.9 | 56.6 | 1 | 36.0-145 | | | 14.5 | 23 |

## L936800-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L936800-03 09/19/17 18:27 • (MS) R3251721-4 09/19/17 18:48 • (MSD) R3251721-5 09/19/17 19:10

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Hexane | 25.0 | ND | 13.0 | 15.0 | 52.0 | 59.9 | 1 | 13.0-145 | | | 13.9 | 20 |
| Iodomethane | 125 | ND | 69.4 | 80.4 | 55.5 | 64.3 | 1 | 30.0-151 | | | 14.7 | 20 |
| Isopropylbenzene | 25.0 | ND | 12.7 | 14.7 | 50.8 | 59.0 | 1 | 48.0-141 | | | 14.8 | 20 |
| p-Isopropyltoluene | 25.0 | ND | 12.9 | 15.3 | 51.8 | 61.2 | 1 | 49.0-146 | | | 16.7 | 20 |
| 2-Butanone (MEK) | 125 | ND | 53.7 | 62.1 | 43.0 | 49.7 | 1 | 12.0-149 | | | 14.5 | 24 |
| 4-Methyl-2-pentanone (MIBK) | 125 | ND | 61.6 | 70.7 | 49.3 | 56.5 | 1 | 44.0-160 | | | 13.7 | 22 |
| Methyl tert-butyl ether | 25.0 | ND | 12.5 | 14.3 | 50.1 | 57.2 | 1 | 42.0-142 | | | 13.2 | 20 |
| Naphthalene | 25.0 | ND | 11.7 | 14.2 | 46.9 | 56.9 | 1 | 42.0-146 | | | 19.3 | 24 |
| n-Propylbenzene | 25.0 | ND | 12.5 | 14.5 | 50.1 | 58.1 | 1 | 47.0-144 | | | 14.8 | 20 |
| Styrene | 25.0 | ND | 12.7 | 14.8 | 50.7 | 59.2 | 1 | 47.0-147 | | | 15.4 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | ND | 13.4 | 15.7 | 53.8 | 62.7 | 1 | 52.0-140 | | | 15.3 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | ND | 11.9 | 13.8 | 47.8 | 55.3 | 1 | 46.0-149 | | | 14.6 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | ND | 14.9 | 16.6 | 59.5 | 66.5 | 1 | 40.0-151 | | | 11.2 | 21 |
| 1,2,3-Trichlorobenzene | 25.0 | ND | 11.9 | 14.5 | 47.5 | 57.9 | 1 | 45.0-145 | | | 19.9 | 22 |
| 1,2,4-Trichlorobenzene | 25.0 | ND | 11.9 | 14.3 | 47.5 | 57.3 | 1 | 49.0-147 | J6 | | 18.7 | 21 |
| 1,1,1-Trichloroethane | 25.0 | ND | 13.7 | 16.1 | 54.8 | 64.4 | 1 | 46.0-140 | | | 16.2 | 20 |
| 1,1,2-Trichloroethane | 25.0 | ND | 13.0 | 15.2 | 52.1 | 60.6 | 1 | 54.0-139 | J6 | | 15.1 | 20 |
| Chloroform | 25.0 | ND | 13.3 | 15.2 | 53.2 | 60.7 | 1 | 50.0-139 | | | 13.3 | 20 |
| Trichlorofluoromethane | 25.0 | ND | 14.9 | 17.2 | 59.7 | 69.0 | 1 | 32.0-152 | | | 14.4 | 20 |
| 1,2,3-Trichloropropane | 25.0 | ND | 12.0 | 14.0 | 48.0 | 56.1 | 1 | 54.0-143 | J6 | | 15.6 | 21 |
| 1,2,4-Trimethylbenzene | 25.0 | ND | 12.2 | 14.2 | 49.0 | 56.7 | 1 | 41.0-146 | | | 14.7 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | ND | 12.8 | 14.9 | 51.2 | 59.4 | 1 | 48.0-138 | | | 14.9 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | ND | 12.2 | 14.4 | 48.9 | 57.7 | 1 | 44.0-143 | | | 16.5 | 20 |
| Vinyl acetate | 125 | ND | 59.7 | 66.4 | 47.8 | 53.1 | 1 | 30.0-160 | | | 10.6 | 20 |
| Xylenes, Total | 75.0 | ND | 39.4 | 45.9 | 52.5 | 61.2 | 1 | 41.0-148 | | | 15.2 | 20 |
| 1,2-Dichloroethane | 25.0 | ND | 13.0 | 15.1 | 51.9 | 60.3 | 1 | 47.0-141 | | | 15.1 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 99.5 | 99.3 | 114 | 0.000 | 56.6 | 1 | 43.0-142 | J6 | | 13.5 | 20 |
| Methylene Chloride | 25.0 | ND | 13.1 | 14.9 | 52.5 | 59.8 | 1 | 42.0-135 | | | 13.0 | 20 |
| Tetrachloroethene | 25.0 | ND | 13.9 | 16.0 | 55.7 | 64.0 | 1 | 38.0-147 | | | 13.9 | 20 |
| Toluene | 25.0 | ND | 13.3 | 15.3 | 53.2 | 61.1 | 1 | 42.0-141 | | | 13.8 | 20 |
| Trichloroethene | 25.0 | 109 | 129 | 129 | 77.7 | 80.4 | 1 | 32.0-156 | | | 0.510 | 20 |
| Vinyl chloride | 25.0 | ND | 15.7 | 18.1 | 62.9 | 72.5 | 1 | 24.0-153 | | | 14.1 | 20 |
| *(S) Toluene-d8* | | | | | *102* | *104* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *98.7* | *100* | | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *94.4* | *96.7* | | *80.0-120* | | | | |

## Method Blank (MB)

(MB) R3251840-2 09/19/17 18:08

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3251840-2 09/19/17 18:08

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *98.7* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3251840-1 09/19/17 17:11 • (LCSD) R3251840-3 09/19/17 18:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.128 | 0.108 | 103 | 86.6 | 11.0-160 | | | 17.1 | 23 |
| Acrylonitrile | 0.125 | 0.127 | 0.126 | 102 | 101 | 61.0-143 | | | 0.730 | 20 |
| Benzene | 0.0250 | 0.0277 | 0.0283 | 111 | 113 | 71.0-124 | | | 2.19 | 20 |
| Bromobenzene | 0.0250 | 0.0262 | 0.0264 | 105 | 106 | 78.0-120 | | | 0.720 | 20 |
| Bromodichloromethane | 0.0250 | 0.0246 | 0.0243 | 98.4 | 97.2 | 75.0-120 | | | 1.23 | 20 |
| Bromochloromethane | 0.0250 | 0.0268 | 0.0272 | 107 | 109 | 80.0-121 | | | 1.62 | 20 |
| Bromoform | 0.0250 | 0.0219 | 0.0209 | 87.6 | 83.8 | 65.0-133 | | | 4.46 | 20 |
| Bromomethane | 0.0250 | 0.0282 | 0.0269 | 113 | 107 | 26.0-160 | | | 4.91 | 20 |
| n-Butylbenzene | 0.0250 | 0.0291 | 0.0270 | 116 | 108 | 73.0-126 | | | 7.47 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0278 | 0.0264 | 111 | 106 | 75.0-121 | | | 5.22 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0275 | 0.0256 | 110 | 102 | 74.0-122 | | | 6.94 | 20 |
| Carbon disulfide | 0.0250 | 0.0259 | 0.0246 | 103 | 98.5 | 53.0-130 | | | 4.92 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0281 | 0.0271 | 112 | 108 | 66.0-123 | | | 3.73 | 20 |
| Chlorobenzene | 0.0250 | 0.0246 | 0.0242 | 98.4 | 96.9 | 79.0-121 | | | 1.49 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0229 | 0.0221 | 91.7 | 88.4 | 74.0-128 | | | 3.68 | 20 |
| Chloroethane | 0.0250 | 0.0283 | 0.0276 | 113 | 110 | 51.0-147 | | | 2.76 | 20 |
| Chloroform | 0.0250 | 0.0288 | 0.0285 | 115 | 114 | 73.0-123 | | | 1.28 | 20 |
| Chloromethane | 0.0250 | 0.0228 | 0.0230 | 91.4 | 91.9 | 51.0-138 | | | 0.580 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0279 | 0.0275 | 112 | 110 | 72.0-124 | | | 1.42 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0265 | 0.0265 | 106 | 106 | 78.0-120 | | | 0.140 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0233 | 0.0217 | 93.1 | 86.7 | 65.0-126 | | | 7.15 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0241 | 0.0238 | 96.3 | 95.3 | 78.0-122 | | | 1.06 | 20 |
| Dibromomethane | 0.0250 | 0.0248 | 0.0246 | 99.0 | 98.5 | 79.0-120 | | | 0.570 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0275 | 0.0264 | 110 | 106 | 80.0-120 | | | 4.00 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0282 | 0.0266 | 113 | 106 | 72.0-123 | | | 5.91 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0260 | 0.0250 | 104 | 100 | 77.0-120 | | | 3.76 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0246 | 0.0232 | 98.4 | 92.8 | 68.0-126 | | | 5.88 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0259 | 0.0218 | 104 | 87.4 | 49.0-155 | | | 16.9 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0282 | 0.0279 | 113 | 112 | 70.0-128 | | | 1.00 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0277 | 0.0287 | 111 | 115 | 69.0-128 | | | 3.65 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0288 | 0.0273 | 115 | 109 | 63.0-131 | | | 5.44 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0266 | 0.0264 | 106 | 105 | 74.0-123 | | | 0.990 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0274 | 0.0267 | 110 | 107 | 72.0-122 | | | 2.53 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0257 | 0.0267 | 103 | 107 | 75.0-126 | | | 3.85 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0286 | 0.0271 | 115 | 108 | 72.0-130 | | | 5.65 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0238 | 0.0238 | 95.1 | 95.1 | 80.0-121 | | | 0.0400 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0263 | 0.0260 | 105 | 104 | 80.0-125 | | | 1.16 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0245 | 0.0245 | 97.9 | 97.9 | 75.0-129 | | | 0.0300 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0263 | 0.0260 | 105 | 104 | 60.0-129 | | | 1.31 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0263 | 0.0264 | 105 | 106 | 62.0-133 | | | 0.360 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3251840-1 09/19/17 17:11 • (LCSD) R3251840-3 09/19/17 18:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0239 | 0.0233 | 95.4 | 93.1 | 77.0-120 | | | 2.46 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0247 | 0.0222 | 98.9 | 88.6 | 68.0-128 | | | 11.0 | 20 |
| 2-Hexanone | 0.125 | 0.135 | 0.125 | 108 | 99.6 | 61.0-143 | | | 7.85 | 20 |
| n-Hexane | 0.0250 | 0.0228 | 0.0220 | 91.4 | 87.9 | 57.0-125 | | | 3.88 | 20 |
| Iodomethane | 0.125 | 0.137 | 0.135 | 110 | 108 | 67.0-132 | | | 1.81 | 20 |
| Isopropylbenzene | 0.0250 | 0.0275 | 0.0260 | 110 | 104 | 75.0-120 | | | 5.62 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0285 | 0.0268 | 114 | 107 | 74.0-125 | | | 6.27 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.138 | 0.134 | 110 | 107 | 37.0-159 | | | 2.79 | 20 |
| Methylene Chloride | 0.0250 | 0.0279 | 0.0276 | 112 | 111 | 67.0-123 | | | 0.990 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.119 | 0.116 | 95.4 | 92.6 | 60.0-144 | | | 2.90 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0275 | 0.0277 | 110 | 111 | 66.0-125 | | | 0.750 | 20 |
| Naphthalene | 0.0250 | 0.0265 | 0.0254 | 106 | 102 | 64.0-125 | | | 4.11 | 20 |
| n-Propylbenzene | 0.0250 | 0.0284 | 0.0268 | 114 | 107 | 78.0-120 | | | 5.86 | 20 |
| Styrene | 0.0250 | 0.0266 | 0.0263 | 106 | 105 | 78.0-124 | | | 0.910 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0239 | 0.0232 | 95.4 | 92.7 | 74.0-124 | | | 2.84 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0278 | 0.0267 | 111 | 107 | 73.0-120 | | | 4.12 | 20 |
| Tetrachloroethene | 0.0250 | 0.0236 | 0.0215 | 94.2 | 85.9 | 70.0-127 | | | 9.28 | 20 |
| Toluene | 0.0250 | 0.0249 | 0.0236 | 99.5 | 94.4 | 77.0-120 | | | 5.24 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0292 | 0.0268 | 117 | 107 | 64.0-135 | | | 8.64 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0272 | 0.0246 | 109 | 98.3 | 68.0-126 | | | 10.0 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0265 | 0.0238 | 106 | 95.3 | 70.0-127 | | | 10.8 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0275 | 0.0261 | 110 | 104 | 69.0-125 | | | 5.44 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0235 | 0.0231 | 94.0 | 92.2 | 78.0-120 | | | 1.93 | 20 |
| Trichloroethene | 0.0250 | 0.0250 | 0.0240 | 99.8 | 96.0 | 79.0-120 | | | 3.90 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0291 | 0.0275 | 116 | 110 | 59.0-136 | | | 5.52 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0277 | 0.0274 | 111 | 110 | 73.0-124 | | | 1.17 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0257 | 0.0251 | 103 | 101 | 76.0-120 | | | 2.32 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0281 | 0.0265 | 112 | 106 | 75.0-120 | | | 5.88 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0280 | 0.0266 | 112 | 106 | 75.0-120 | | | 5.26 | 20 |
| Vinyl acetate | 0.125 | 0.153 | 0.156 | 122 | 124 | 58.0-156 | | | 1.95 | 20 |
| Vinyl chloride | 0.0250 | 0.0279 | 0.0264 | 111 | 106 | 63.0-134 | | | 5.23 | 20 |
| Xylenes, Total | 0.0750 | 0.0730 | 0.0714 | 97.3 | 95.2 | 77.0-120 | | | 2.22 | 20 |
| *(S) Toluene-d8* | | | | *97.8* | *95.5* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *110* | *108* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *104* | *100* | *64.0-132* | | | | |

## L937086-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L937086-01 09/19/17 20:39 • (MS) R3251840-4 09/20/17 01:52 • (MSD) R3251840-5 09/20/17 02:09

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.204 | ND | 0.0931 | 0.0988 | 19.9 | 22.7 | 1 | 10.0-160 | | | 5.91 | 36 |
| Acrylonitrile | 0.204 | ND | 0.139 | 0.155 | 68.2 | 76.0 | 1 | 14.0-160 | | | 10.9 | 33 |
| Benzene | 0.0409 | ND | 0.0211 | 0.0269 | 51.6 | 65.9 | 1 | 13.0-146 | | | 24.4 | 27 |
| Bromobenzene | 0.0409 | ND | 0.0140 | 0.0157 | 34.3 | 38.4 | 1 | 10.0-149 | | | 11.5 | 33 |
| Bromodichloromethane | 0.0409 | ND | 0.0169 | 0.0225 | 41.3 | 55.0 | 1 | 15.0-142 | | J3 | 28.3 | 28 |
| Bromochloromethane | 0.0409 | ND | 0.0224 | 0.0274 | 54.7 | 67.0 | 1 | 24.0-146 | | | 20.3 | 27 |
| Bromoform | 0.0409 | ND | 0.0131 | 0.0160 | 32.1 | 39.0 | 1 | 10.0-147 | | | 19.5 | 31 |
| Bromomethane | 0.0409 | ND | 0.0250 | 0.0292 | 61.1 | 71.5 | 1 | 10.0-160 | | | 15.7 | 32 |
| n-Butylbenzene | 0.0409 | ND | 0.0171 | 0.0162 | 41.9 | 39.5 | 1 | 10.0-154 | | | 5.83 | 37 |
| sec-Butylbenzene | 0.0409 | ND | 0.0193 | 0.0184 | 47.2 | 45.1 | 1 | 10.0-151 | | | 4.57 | 36 |
| tert-Butylbenzene | 0.0409 | ND | 0.0193 | 0.0199 | 47.3 | 48.6 | 1 | 10.0-152 | | | 2.82 | 35 |
| Carbon disulfide | 0.0409 | ND | 0.0199 | 0.0255 | 45.0 | 58.5 | 1 | 10.0-141 | | | 24.4 | 30 |
| Carbon tetrachloride | 0.0409 | ND | 0.0217 | 0.0272 | 53.0 | 66.4 | 1 | 13.0-140 | | | 22.6 | 30 |
| Chlorobenzene | 0.0409 | ND | 0.0116 | 0.0148 | 28.3 | 36.1 | 1 | 10.0-149 | | | 24.3 | 31 |
| Chlorodibromomethane | 0.0409 | ND | 0.0122 | 0.0163 | 29.7 | 39.9 | 1 | 12.0-147 | | J3 | 29.2 | 29 |
| Chloroethane | 0.0409 | ND | 0.0280 | 0.0333 | 68.5 | 81.5 | 1 | 10.0-159 | | | 17.3 | 33 |
| Chloroform | 0.0409 | ND | 0.0233 | 0.0290 | 57.0 | 70.9 | 1 | 18.0-148 | | | 21.7 | 28 |
| Chloromethane | 0.0409 | ND | 0.0258 | 0.0281 | 63.2 | 68.7 | 1 | 10.0-146 | | | 8.34 | 29 |
| 2-Chlorotoluene | 0.0409 | ND | 0.0173 | 0.0184 | 42.4 | 44.9 | 1 | 10.0-151 | | | 5.63 | 35 |
| 4-Chlorotoluene | 0.0409 | ND | 0.0144 | 0.0157 | 35.2 | 38.3 | 1 | 10.0-150 | | | 8.30 | 35 |
| 1,2-Dibromo-3-Chloropropane | 0.0409 | ND | 0.00958 | 0.0132 | 23.4 | 32.4 | 1 | 10.0-149 | | | 32.1 | 34 |
| 1,2-Dibromoethane | 0.0409 | ND | 0.0139 | 0.0186 | 34.0 | 45.4 | 1 | 14.0-145 | | J3 | 28.9 | 28 |
| Dibromomethane | 0.0409 | ND | 0.0195 | 0.0242 | 47.6 | 59.1 | 1 | 18.0-144 | | | 21.5 | 27 |
| 1,2-Dichlorobenzene | 0.0409 | ND | 0.0106 | 0.0120 | 25.9 | 29.3 | 1 | 10.0-153 | | | 12.2 | 34 |
| 1,3-Dichlorobenzene | 0.0409 | ND | 0.0118 | 0.0130 | 28.8 | 31.8 | 1 | 10.0-150 | | | 10.0 | 35 |
| 1,4-Dichlorobenzene | 0.0409 | ND | 0.0107 | 0.0112 | 26.3 | 27.4 | 1 | 10.0-148 | | | 4.08 | 34 |
| trans-1,4-Dichloro-2-butene | 0.0409 | ND | 0.0117 | 0.0145 | 28.6 | 35.6 | 1 | 10.0-160 | | | 21.5 | 40 |
| Dichlorodifluoromethane | 0.0409 | ND | 0.0279 | 0.0335 | 68.2 | 82.0 | 1 | 10.0-160 | | | 18.5 | 30 |
| 1,1-Dichloroethane | 0.0409 | ND | 0.0255 | 0.0301 | 60.8 | 72.0 | 1 | 19.0-148 | | | 16.5 | 28 |
| 1,2-Dichloroethane | 0.0409 | ND | 0.0234 | 0.0290 | 57.3 | 70.9 | 1 | 17.0-147 | | | 21.2 | 27 |
| 1,1-Dichloroethene | 0.0409 | ND | 0.0245 | 0.0297 | 59.9 | 72.6 | 1 | 10.0-150 | | | 19.2 | 31 |
| cis-1,2-Dichloroethene | 0.0409 | ND | 0.0212 | 0.0266 | 50.7 | 63.8 | 1 | 16.0-145 | | | 22.4 | 28 |
| trans-1,2-Dichloroethene | 0.0409 | ND | 0.0209 | 0.0266 | 51.2 | 65.0 | 1 | 11.0-142 | | | 23.8 | 29 |
| 1,2-Dichloropropane | 0.0409 | ND | 0.0195 | 0.0268 | 47.6 | 65.4 | 1 | 17.0-148 | | J3 | 31.5 | 28 |
| 1,1-Dichloropropene | 0.0409 | ND | 0.0199 | 0.0253 | 48.7 | 61.9 | 1 | 10.0-150 | | | 23.9 | 30 |
| 1,3-Dichloropropane | 0.0409 | ND | 0.0158 | 0.0196 | 38.7 | 47.9 | 1 | 16.0-148 | | | 21.2 | 27 |
| cis-1,3-Dichloropropene | 0.0409 | ND | 0.0148 | 0.0191 | 36.3 | 46.8 | 1 | 13.0-150 | | | 25.2 | 28 |
| trans-1,3-Dichloropropene | 0.0409 | ND | 0.0127 | 0.0164 | 31.2 | 40.0 | 1 | 10.0-152 | | | 24.8 | 29 |
| 2,2-Dichloropropane | 0.0409 | ND | 0.0227 | 0.0287 | 55.5 | 70.2 | 1 | 16.0-143 | | | 23.4 | 30 |

## L937086-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L937086-01 09/19/17 20:39 • (MS) R3251840-4 09/20/17 01:52 • (MSD) R3251840-5 09/20/17 02:09

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Di-isopropyl ether | 0.0409 | ND | 0.0224 | 0.0283 | 54.7 | 69.1 | 1 | 16.0-149 | | | 23.3 | 28 |
| Ethylbenzene | 0.0409 | ND | 0.0132 | 0.0161 | 32.2 | 39.3 | 1 | 10.0-147 | | | 19.8 | 31 |
| Hexachloro-1,3-butadiene | 0.0409 | ND | 0.0146 | 0.0137 | 35.7 | 33.6 | 1 | 10.0-154 | | | 6.29 | 40 |
| 2-Hexanone | 0.204 | ND | 0.0776 | 0.105 | 38.0 | 51.3 | 1 | 12.0-158 | | | 29.9 | 30 |
| n-Hexane | 0.0409 | ND | 0.0163 | 0.0203 | 38.1 | 47.9 | 1 | 10.0-140 | | | 21.7 | 34 |
| Iodomethane | 0.204 | ND | 0.117 | 0.142 | 57.4 | 69.5 | 1 | 10.0-157 | | | 19.0 | 34 |
| Isopropylbenzene | 0.0409 | ND | 0.0197 | 0.0206 | 48.1 | 50.4 | 1 | 10.0-147 | | | 4.69 | 33 |
| p-Isopropyltoluene | 0.0409 | ND | 0.0188 | 0.0180 | 45.8 | 44.0 | 1 | 10.0-156 | | | 4.13 | 37 |
| 2-Butanone (MEK) | 0.204 | ND | 0.121 | 0.136 | 53.8 | 61.1 | 1 | 10.0-160 | | | 11.6 | 33 |
| Methylene Chloride | 0.0409 | ND | 0.0251 | 0.0291 | 61.4 | 71.2 | 1 | 16.0-139 | | | 14.9 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.204 | ND | 0.115 | 0.144 | 56.2 | 70.3 | 1 | 12.0-160 | | | 22.3 | 32 |
| Methyl tert-butyl ether | 0.0409 | ND | ND | 0.0328 | 0.000 | 80.3 | 1 | 21.0-145 | J6 | J3 | 200 | 29 |
| Naphthalene | 0.0409 | ND | 0.00379 | 0.00512 | 9.26 | 12.5 | 1 | 10.0-153 | J6 | | 30.0 | 36 |
| n-Propylbenzene | 0.0409 | ND | 0.0193 | 0.0193 | 47.1 | 47.2 | 1 | 10.0-151 | | | 0.200 | 34 |
| Styrene | 0.0409 | ND | 0.00740 | 0.00600 | 18.1 | 14.7 | 1 | 10.0-155 | | | 20.9 | 34 |
| 1,1,1,2-Tetrachloroethane | 0.0409 | ND | 0.0129 | 0.0172 | 31.4 | 42.0 | 1 | 10.0-147 | | | 28.9 | 30 |
| 1,1,2,2-Tetrachloroethane | 0.0409 | ND | 0.0190 | 0.0222 | 46.5 | 54.2 | 1 | 10.0-155 | | | 15.4 | 31 |
| Tetrachloroethene | 0.0409 | ND | 0.0136 | 0.0168 | 33.2 | 41.0 | 1 | 10.0-144 | | | 20.9 | 32 |
| Toluene | 0.0409 | ND | 0.0142 | 0.0182 | 34.8 | 44.5 | 1 | 10.0-144 | | | 24.7 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0409 | ND | 0.0241 | 0.0293 | 58.8 | 71.7 | 1 | 10.0-153 | | | 19.8 | 33 |
| 1,2,3-Trichlorobenzene | 0.0409 | ND | 0.00548 | 0.00636 | 13.4 | 15.5 | 1 | 10.0-153 | | | 14.9 | 40 |
| 1,2,4-Trichlorobenzene | 0.0409 | ND | 0.00536 | 0.00617 | 13.1 | 15.1 | 1 | 10.0-156 | | | 14.1 | 40 |
| 1,1,1-Trichloroethane | 0.0409 | ND | 0.0216 | 0.0279 | 52.8 | 68.2 | 1 | 18.0-145 | | | 25.4 | 29 |
| 1,1,2-Trichloroethane | 0.0409 | ND | 0.0147 | 0.0199 | 36.0 | 48.8 | 1 | 12.0-151 | | J3 | 30.0 | 28 |
| Trichloroethene | 0.0409 | ND | 0.0174 | 0.0217 | 42.6 | 53.2 | 1 | 11.0-148 | | | 22.0 | 29 |
| Trichlorofluoromethane | 0.0409 | ND | 0.0263 | 0.0323 | 64.4 | 79.0 | 1 | 10.0-157 | | | 20.3 | 34 |
| 1,2,3-Trichloropropane | 0.0409 | ND | 0.0199 | 0.0241 | 48.6 | 59.0 | 1 | 10.0-154 | | | 19.2 | 32 |
| 1,2,3-Trimethylbenzene | 0.0409 | ND | 0.0144 | 0.0153 | 35.2 | 37.5 | 1 | 10.0-150 | | | 6.41 | 33 |
| 1,2,4-Trimethylbenzene | 0.0409 | ND | 0.0159 | 0.0165 | 38.9 | 40.4 | 1 | 10.0-151 | | | 3.72 | 34 |
| 1,3,5-Trimethylbenzene | 0.0409 | ND | 0.0172 | 0.0177 | 42.1 | 43.3 | 1 | 10.0-150 | | | 2.83 | 33 |
| Vinyl acetate | 0.204 | ND | 0.0713 | 0.0887 | 34.9 | 43.4 | 1 | 10.0-160 | | | 21.8 | 40 |
| Vinyl chloride | 0.0409 | ND | 0.0272 | 0.0322 | 66.5 | 78.7 | 1 | 10.0-150 | | | 16.8 | 29 |
| Xylenes, Total | 0.123 | ND | 0.0373 | 0.0460 | 30.4 | 37.5 | 1 | 10.0-150 | | | 20.9 | 31 |
| *(S) Toluene-d8* | | | | | *88.4* | *89.7* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *118* | *119* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *116* | *107* | | *64.0-132* | | | | |

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

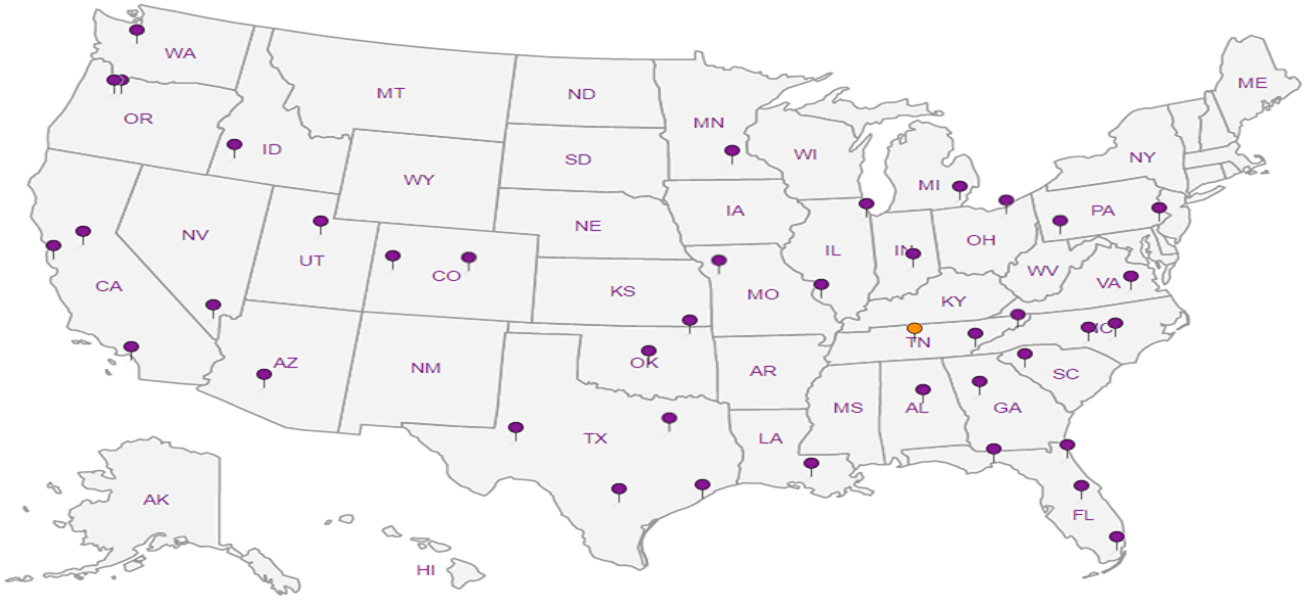
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc. -WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: Seattle, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

*Rush?* (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres /2x2ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-139-20 | GRAB | SS | 20 | 9/13/17 | 1510 | 5 | | | X | X | | | -01 |
| MW-139-31 | | | 31 | | ~~1556~~ 1615 | 5 | | | X | X | | | 02 |
| MW-139-41 | | | 41 | | 1640 | 5 | | | X | X | | | 03 |
| MW-139-51 | | | 51 | | 1700 | 5 | | | X | X | | | 04 |
| MW-139-60 | | | 60 | | 1705 | 5 | | | X | X | | | 05 |
| MW-139-70 | | | 70 | | 1825 | 5 | | | X | X | | | 06 |
| MW-139-80 | | | 80 | ↓ | 1840 | 5 | | | X | X | | | 07 |
| MW-138-115 | | ↓ | 115 | 9/14/17 | 1055 | 5 | | | X | X | | | 08 |
| MW-138-115-W | ↓ | GW | 115 | ↓ | 1200 | 3 | | | | | X | | 09 |
| TRIP BLANK-091417 | NA | NA | NA | 11/01/16 | NA | 1 | | | | | X | | 10 |

Analysis / Container / Preservative

Chain of Custody Page 1 of

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L937125
E192

Acctnum: PESENVSWA
Template: T126586
Prelogin: P613274
TSR:
PB:
Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 9/14/17 | 1630 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| | | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | |

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 2.1 uncorr °C 50
Bottles Received: 42

Date: 9-15-17 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

# MEMORANDUM

**TO:** Project File **DATE:** October 17, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** September 13-14, 2017 – Soil and Groundwater Samples

**LAB:** ESC Lab ID L937125

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Eight (8) soil samples, one (1) groundwater sample, and one trip blank were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 13-14, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C; and
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L937125. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L937125 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on September 13-14, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 2.1 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acrylonitrile, chloromethane, 1,2-dibromoethane, di-isopropyl ether, and 4-methyl-2-pentanone (MIBK) associated with analytical batch WG1022131 (analyzed on September 24, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, bromoform, trans-1,4-dichloro-2-butene, and hexachloro-1,3-butadiene associated with analytical batch WG1022131 (analyzed on September 19, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs) with the following exception:

- Batch WG1021889 (waters): Acetone and hexachloro-1,3-butadiene were detected above the method detection limit (MDL) and below the RDL in the method blank. **Acetone was detected below the RDL in the associated sample and this result is qualified as not detected (U) due to blank contamination.** No action was taken for hexachloro-1,3-butadiene as it was not detected in the associated sample.

*Total Solids by SM 2540 G 2011:*
Laboratory method blank was included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was collected and submitted for VOC analysis. The target analytes (VOCs) were not detected in the trip blank at or above the reported detection limits (RDLs) with the following exception:

- Acetone was detected below the RDL and was also detected in the method blank. Associated sample acetone result is qualified as not detected (U) due to blank contamination.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate samples were not collected.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on a non-client sample, and on client sample MW-139-41. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS and LCS/LCSDs were analyzed by USEPA Method 8260C method. The LCS and LCS/LCSDs %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on client sample MW-141-85 and a non-client sample within the analytical batches. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for soils and waters with the following exceptions:

- MS/MSD (Batch WG1022131 for soils) RPDs and % recoveries for multiple compounds exceed laboratory RPD criteria and are qualified (J3 and/or J6) by the laboratory. No action is taken since the spike was performed on a non-client sample within the analytical batch and LCS/LCSD results are acceptable. Refer to LCS data for more information.
- MS/MSD (Batch WG1021889 for waters) RPDs and % recoveries for multiple compounds exceed laboratory criteria due to matrix interference and are qualified (J3 and/or J6) by the laboratory. No action is taken since the spike was performed on a non-client sample within the analytical batch and LCS/LCSD results are acceptable. Refer to LCS data for more information.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- *USEPA Method 8260C:* ESC (SDG L937125-01 and 07) footnotes for soil samples MW-139-20 and MW-139-80 indicated "Elevated RL Bisulfate vials overweight, reported from ME0H vial." In both cases the elevated reporting limit (RL) applies to two compounds (trans-1,4-dichloro-2-butene and tetrachloroethene). ESC was contacted to clarify the footnote. Per ESCs response one of the vials for each sample had greater than 7.5 grams of soil and was therefore unusable. The two compounds were not reportable on the undiluted initial run due to failing CCV and reporting level checks. Both samples were reanalyzed at a higher dilution for these two compounds using the methanol preserved vials. No action was taken other than to note this.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.4 | | 1 | 09/20/2017 14:56 | WG1022370 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U | | 0.0116 | 0.0578 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Acrylonitrile | U UJ | J0 | 0.00207 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Benzene | U | | 0.000312 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Bromobenzene | U | | 0.000329 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Bromochloromethane | U | | 0.000451 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Bromoform | U | | 0.000490 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Bromomethane | U | | 0.00155 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 | |
| n-Butylbenzene | U | | 0.000298 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| tert-Butylbenzene | U | | 0.000238 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Carbon disulfide | 0.000485 J | J | 0.000256 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Carbon tetrachloride | U | | 0.000379 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Chlorobenzene | U | | 0.000245 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Chlorodibromomethane | U | | 0.000431 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Chloroethane | U | | 0.00109 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Chloroform | U | | 0.000265 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Chloromethane | U UJ | J0 | 0.000434 | 0.00289 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 2-Chlorotoluene | U | | 0.000348 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 1,2-Dibromoethane | U UJ | J0 | 0.000397 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Dibromomethane | U | | 0.000442 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 1,3-Dichlorobenzene | U | | 0.000276 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 1,4-Dichlorobenzene | U | | 0.000261 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Dichlorodifluoromethane | U | | 0.000825 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 1,1-Dichloroethene | U | | 0.000351 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| cis-1,2-Dichloroethene | 0.000500 J | J | 0.000272 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| trans-1,2-Dichloroethene | U | | 0.000305 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 1,2-Dichloropropane | U | | 0.000414 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 1,1-Dichloropropene | U | | 0.000367 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 1,3-Dichloropropane | U | | 0.000239 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| cis-1,3-Dichloropropene | U | | 0.000303 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| trans-1,4-Dichloro-2-butene | U | | 0.0276 | 0.0889 | 30.75 | 09/25/2017 13:33 | WG1022131 | |
| 2,2-Dichloropropane | U | | 0.000323 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Di-isopropyl ether | U UJ | J0 | 0.000287 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Ethylbenzene | U | | 0.000344 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Hexachloro-1,3-butadiene | U | | 0.000396 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 2-Hexanone | U | | 0.00158 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| n-Hexane | U | | 0.000335 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Iodomethane | U | | 0.00293 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Isopropylbenzene | U | | 0.000281 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 2-Butanone (MEK) | U | | 0.00541 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 | |
| Methylene Chloride | U | | 0.00116 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 | |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00217 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 | JC 10/16/17 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000245 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Naphthalene | U | | 0.00116 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 |
| n-Propylbenzene | U | | 0.000238 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000305 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000422 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000422 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Tetrachloroethene | 0.0138 J | J | 0.00982 | 0.0356 | 30.75 | 09/25/2017 13:33 | WG1022131 |
| Toluene | U | | 0.000502 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000449 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000320 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Trichloroethene | U | | 0.000323 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000442 | 0.00578 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000857 | 0.00289 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000332 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Vinyl acetate | U | | 0.00276 | 0.0116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Vinyl chloride | 0.00397 | | 0.000337 | 0.00116 | 1 | 09/24/2017 17:49 | WG1022131 |
| Xylenes, Total | U | | 0.000807 | 0.00347 | 1 | 09/24/2017 17:49 | WG1022131 |
| *(S) Toluene-d8* | *95.1* | | | *80.0-120* | | *09/25/2017 13:33* | WG1022131 |
| *(S) Toluene-d8* | *99.8* | | | *80.0-120* | | *09/24/2017 17:49* | WG1022131 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/24/2017 17:49* | WG1022131 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/25/2017 13:33* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/25/2017 13:33* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/24/2017 17:49* | WG1022131 |

**Sample Narrative:**

L937125-01 WG1022131: Elevated RL. Bisulfate vials overweight, reported from MEOH vial.

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.5 | | 1 | 09/20/2017 14:56 | WG1022370 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0107 | 0.0535 | 1 | 09/19/2017 23:50 | WG1022131 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Benzene | U | | 0.000289 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Bromobenzene | U | | 0.000304 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Bromodichloromethane | U | | 0.000272 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Bromochloromethane | U | | 0.000417 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| Bromoform | U UJ | J0 | 0.000454 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Bromomethane | U | | 0.00143 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| n-Butylbenzene | U | | 0.000276 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| sec-Butylbenzene | U | | 0.000215 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Carbon disulfide | 0.000694 J | J | 0.000236 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Carbon tetrachloride | U | | 0.000351 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Chlorobenzene | U | | 0.000227 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Chlorodibromomethane | U | | 0.000399 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Chloroethane | U | | 0.00101 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| Chloroform | U | | 0.000245 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| Chloromethane | U | | 0.000401 | 0.00267 | 1 | 09/19/2017 23:50 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000322 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000257 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2-Dibromoethane | U | | 0.000367 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Dibromomethane | U | | 0.000409 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000256 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000242 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000763 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000213 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000284 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000324 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| cis-1,2-Dichloroethene | 0.00814 | | 0.000251 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| trans-1,2-Dichloroethene | U | | 0.000282 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000383 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000339 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000280 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000286 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000832 | 0.00267 | 1 | 09/19/2017 23:50 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000298 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Di-isopropyl ether | U | | 0.000265 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Ethylbenzene | U | | 0.000318 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Hexachloro-1,3-butadiene | U UJ | J0 | 0.000366 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |
| n-Hexane | U | | 0.000310 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Iodomethane | U | | 0.00271 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Isopropylbenzene | U | | 0.000260 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00501 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Methylene Chloride | U | | 0.00107 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00201 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000227 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Naphthalene | U | | 0.00107 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000282 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000391 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000391 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Tetrachloroethene | 0.00308 | | 0.000295 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Toluene | U | | 0.000464 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000327 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000415 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000306 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000296 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Trichloroethene | 0.000467 J | J | 0.000298 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000409 | 0.00535 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000793 | 0.00267 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000226 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000307 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000285 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Vinyl acetate | U | | 0.00256 | 0.0107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Vinyl chloride | 0.00139 | | 0.000311 | 0.00107 | 1 | 09/19/2017 23:50 | WG1022131 |
| Xylenes, Total | U | | 0.000747 | 0.00321 | 1 | 09/19/2017 23:50 | WG1022131 |
| *(S) Toluene-d8* | *97.9* | | | *80.0-120* | | *09/19/2017 23:50* | WG1022131 |
| *(S) Dibromofluoromethane* | *115* | | | *74.0-131* | | *09/19/2017 23:50* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/19/2017 23:50* | WG1022131 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.1 | | 1 | 09/20/2017 14:29 | WG1022371 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0153 J | J J0 | 0.0107 | 0.0537 | 1 | 09/20/2017 00:08 | WG1022131 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Benzene | U | | 0.000290 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Bromobenzene | U | | 0.000305 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Bromodichloromethane | U | | 0.000273 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Bromochloromethane | U | | 0.000419 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| Bromoform | U UJ | J0 | 0.000455 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Bromomethane | U | | 0.00144 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| n-Butylbenzene | U | | 0.000277 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| sec-Butylbenzene | U | | 0.000216 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Carbon disulfide | 0.00149 | | 0.000237 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Carbon tetrachloride | U | | 0.000352 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Chlorobenzene | U | | 0.000228 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Chlorodibromomethane | U | | 0.000401 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Chloroethane | U | | 0.00102 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| Chloroform | U | | 0.000246 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| Chloromethane | U | | 0.000403 | 0.00269 | 1 | 09/20/2017 00:08 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000323 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000258 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2-Dibromoethane | U | | 0.000368 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Dibromomethane | U | | 0.000410 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000766 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000325 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| cis-1,2-Dichloroethene | 0.0982 | | 0.000252 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| trans-1,2-Dichloroethene | 0.000407 J | J | 0.000284 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000385 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000340 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000287 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000836 | 0.00269 | 1 | 09/20/2017 00:08 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Di-isopropyl ether | U | | 0.000266 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Ethylbenzene | U | | 0.000319 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Hexachloro-1,3-butadiene | U UJ | J0 | 0.000367 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |
| n-Hexane | 0.00158 J | J | 0.000311 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Iodomethane | U | | 0.00272 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Isopropylbenzene | U | | 0.000261 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000219 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00503 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Methylene Chloride | U | | 0.00107 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Naphthalene | U | | 0.00107 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000392 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000392 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Tetrachloroethene | 0.0126 | | 0.000296 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Toluene | U | | 0.000466 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000329 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000417 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000307 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Trichloroethene | 0.00100 J | J | 0.000300 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000410 | 0.00537 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000796 | 0.00269 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000308 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Vinyl acetate | U | | 0.00257 | 0.0107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Vinyl chloride | 0.00209 | | 0.000313 | 0.00107 | 1 | 09/20/2017 00:08 | WG1022131 |
| Xylenes, Total | U | | 0.000750 | 0.00322 | 1 | 09/20/2017 00:08 | WG1022131 |
| *(S) Toluene-d8* | *93.7* | | | *80.0-120* | | *09/20/2017 00:08* | WG1022131 |
| *(S) Dibromofluoromethane* | *117* | | | *74.0-131* | | *09/20/2017 00:08* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/20/2017 00:08* | WG1022131 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.7 | | 1 | 09/20/2017 14:29 | WG1022371 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0147 J | J J0 | 0.0115 | 0.0577 | 1 | 09/20/2017 00:25 | WG1022131 |
| Acrylonitrile | U | | 0.00207 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Benzene | U | | 0.000312 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Bromobenzene | U | | 0.000328 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Bromodichloromethane | U | | 0.000293 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Bromochloromethane | U | | 0.000450 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| Bromoform | U UJ | J0 | 0.000489 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Bromomethane | U | | 0.00155 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| n-Butylbenzene | U | | 0.000298 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| sec-Butylbenzene | U | | 0.000232 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| tert-Butylbenzene | U | | 0.000238 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Carbon disulfide | 0.000918 J | J | 0.000255 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Carbon tetrachloride | U | | 0.000378 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Chlorobenzene | U | | 0.000245 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Chlorodibromomethane | U | | 0.000430 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Chloroethane | U | | 0.00109 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| Chloroform | U | | 0.000264 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| Chloromethane | U | | 0.000433 | 0.00288 | 1 | 09/20/2017 00:25 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000347 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000277 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2-Dibromoethane | U | | 0.000396 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Dibromomethane | U | | 0.000441 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000352 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000276 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000261 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000823 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000306 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000350 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| cis-1,2-Dichloroethene | 0.000763 J | J | 0.000271 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| trans-1,2-Dichloroethene | U | | 0.000305 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000413 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000366 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000239 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000302 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000308 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000898 | 0.00288 | 1 | 09/20/2017 00:25 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000322 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Di-isopropyl ether | U | | 0.000286 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Ethylbenzene | U | | 0.000343 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Hexachloro-1,3-butadiene | U UJ | J0 | 0.000395 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 2-Hexanone | U | | 0.00158 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |
| n-Hexane | 0.000675 J | J | 0.000335 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Iodomethane | U | | 0.00292 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Isopropylbenzene | U | | 0.000280 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000235 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00540 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Methylene Chloride | U | | 0.00115 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00217 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000245 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Naphthalene | U | | 0.00115 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| n-Propylbenzene | U | | 0.000238 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Styrene | U | | 0.000270 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000305 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000421 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000421 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Tetrachloroethene | 0.000397 | J J | 0.000318 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Toluene | U | | 0.000501 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000353 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000448 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000330 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000320 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Trichloroethene | U | | 0.000322 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000441 | 0.00577 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000855 | 0.00288 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000243 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000331 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000307 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Vinyl acetate | U | | 0.00276 | 0.0115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Vinyl chloride | U | | 0.000336 | 0.00115 | 1 | 09/20/2017 00:25 | WG1022131 |
| Xylenes, Total | U | | 0.000805 | 0.00346 | 1 | 09/20/2017 00:25 | WG1022131 |
| *(S) Toluene-d8* | *93.3* | | | *80.0-120* | | *09/20/2017 00:25* | WG1022131 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/20/2017 00:25* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *09/20/2017 00:25* | WG1022131 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.1 | | 1 | 09/20/2017 14:29 | WG1022371 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.0107 | 0.0537 | 1 | 09/20/2017 00:43 | WG1022131 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Benzene | U | | 0.000290 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Bromobenzene | U | | 0.000305 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Bromodichloromethane | U | | 0.000273 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Bromochloromethane | U | | 0.000419 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| Bromoform | U UJ | J0 | 0.000455 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Bromomethane | U | | 0.00144 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| n-Butylbenzene | U | | 0.000277 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| sec-Butylbenzene | U | | 0.000216 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Carbon disulfide | 0.000528 J | J | 0.000237 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Carbon tetrachloride | U | | 0.000352 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Chlorobenzene | U | | 0.000228 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Chlorodibromomethane | U | | 0.000401 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Chloroethane | U | | 0.00102 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| Chloroform | U | | 0.000246 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| Chloromethane | U | | 0.000403 | 0.00268 | 1 | 09/20/2017 00:43 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000323 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000258 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2-Dibromoethane | U | | 0.000368 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Dibromomethane | U | | 0.000410 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000766 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000325 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| cis-1,2-Dichloroethene | U | | 0.000252 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| trans-1,2-Dichloroethene | U | | 0.000284 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000384 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000340 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000281 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000287 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000836 | 0.00268 | 1 | 09/20/2017 00:43 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Di-isopropyl ether | U | | 0.000266 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Ethylbenzene | U | | 0.000319 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Hexachloro-1,3-butadiene | U UJ | J0 | 0.000367 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |
| n-Hexane | U | | 0.000311 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Iodomethane | U | | 0.00272 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Isopropylbenzene | U | | 0.000261 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000219 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00503 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Methylene Chloride | U | | 0.00107 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Naphthalene | U | | 0.00107 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000392 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000392 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Tetrachloroethene | U | | 0.000296 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Toluene | U | | 0.000466 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000329 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000417 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000307 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000297 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Trichloroethene | U | | 0.000300 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000410 | 0.00537 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000796 | 0.00268 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000308 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Vinyl acetate | U | | 0.00257 | 0.0107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Vinyl chloride | U | | 0.000313 | 0.00107 | 1 | 09/20/2017 00:43 | WG1022131 |
| Xylenes, Total | U | | 0.000750 | 0.00322 | 1 | 09/20/2017 00:43 | WG1022131 |
| *(S) Toluene-d8* | *94.4* | | | *80.0-120* | | *09/20/2017 00:43* | WG1022131 |
| *(S) Dibromofluoromethane* | *113* | | | *74.0-131* | | *09/20/2017 00:43* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/20/2017 00:43* | WG1022131 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.8 | | 1 | 09/20/2017 14:29 | WG1022371 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0118 J | J J0 | 0.0118 | 0.0590 | 1 | 09/20/2017 01:00 | WG1022131 |
| Acrylonitrile | U | | 0.00211 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Benzene | U | | 0.000319 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Bromobenzene | U | | 0.000335 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Bromodichloromethane | U | | 0.000300 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Bromochloromethane | U | | 0.000460 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| Bromoform | U UJ | J0 | 0.000500 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Bromomethane | U | | 0.00158 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| n-Butylbenzene | U | | 0.000304 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| sec-Butylbenzene | U | | 0.000237 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| tert-Butylbenzene | U | | 0.000243 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Carbon disulfide | 0.000621 J | J | 0.000261 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Carbon tetrachloride | U | | 0.000387 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Chlorobenzene | U | | 0.000250 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Chlorodibromomethane | U | | 0.000440 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Chloroethane | U | | 0.00112 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| Chloroform | U | | 0.000270 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| Chloromethane | U | | 0.000442 | 0.00295 | 1 | 09/20/2017 01:00 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000355 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000283 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00124 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2-Dibromoethane | U | | 0.000405 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Dibromomethane | U | | 0.000451 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000360 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000282 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000267 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000841 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000235 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000313 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000358 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| cis-1,2-Dichloroethene | U | | 0.000277 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| trans-1,2-Dichloroethene | U | | 0.000312 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000422 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000374 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000244 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000309 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000315 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.000918 | 0.00295 | 1 | 09/20/2017 01:00 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000329 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Di-isopropyl ether | U | | 0.000293 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Ethylbenzene | U | | 0.000350 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Hexachloro-1,3-butadiene | U UJ | J0 | 0.000404 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 2-Hexanone | U | | 0.00162 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |
| n-Hexane | U | | 0.000342 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Iodomethane | U | | 0.00299 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Isopropylbenzene | U | | 0.000287 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000241 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00552 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Methylene Chloride | U | | 0.00118 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00222 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000250 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Naphthalene | U | | 0.00118 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| n-Propylbenzene | U | | 0.000243 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Styrene | U | | 0.000276 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000312 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000431 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000431 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Tetrachloroethene | U | | 0.000326 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Toluene | U | | 0.000512 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000361 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000458 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000337 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000327 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Trichloroethene | U | | 0.000329 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000451 | 0.00590 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000874 | 0.00295 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000249 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000339 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000314 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Vinyl acetate | U | | 0.00282 | 0.0118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Vinyl chloride | U | | 0.000343 | 0.00118 | 1 | 09/20/2017 01:00 | WG1022131 |
| Xylenes, Total | U | | 0.000824 | 0.00354 | 1 | 09/20/2017 01:00 | WG1022131 |
| *(S) Toluene-d8* | *93.8* | | | *80.0-120* | | *09/20/2017 01:00* | WG1022131 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/20/2017 01:00* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/20/2017 01:00* | WG1022131 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.5 | | 1 | 09/20/2017 14:29 | WG1022371 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0113 | 0.0565 | 1 | 09/24/2017 18:09 | WG1022131 |
| Acrylonitrile | U UJ | J0 | 0.00202 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Benzene | U | | 0.000305 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Bromobenzene | U | | 0.000321 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Bromodichloromethane | U | | 0.000287 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Bromochloromethane | U | | 0.000441 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| Bromoform | U | | 0.000479 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Bromomethane | U | | 0.00151 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| n-Butylbenzene | U | | 0.000292 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| sec-Butylbenzene | U | | 0.000227 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| tert-Butylbenzene | U | | 0.000233 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Carbon disulfide | 0.000551 J | J | 0.000250 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Carbon tetrachloride | U | | 0.000371 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Chlorobenzene | U | | 0.000240 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Chlorodibromomethane | U | | 0.000421 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Chloroethane | U | | 0.00107 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| Chloroform | U | | 0.000259 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| Chloromethane | U UJ | J0 | 0.000424 | 0.00283 | 1 | 09/24/2017 18:09 | WG1022131 |
| 2-Chlorotoluene | U | | 0.000340 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 4-Chlorotoluene | U | | 0.000271 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2-Dibromoethane | U UJ | J0 | 0.000388 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Dibromomethane | U | | 0.000432 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2-Dichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,3-Dichlorobenzene | U | | 0.000270 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,4-Dichlorobenzene | U | | 0.000255 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Dichlorodifluoromethane | U | | 0.000806 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1-Dichloroethane | U | | 0.000225 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2-Dichloroethane | U | | 0.000299 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1-Dichloroethene | U | | 0.000342 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| cis-1,2-Dichloroethene | U | | 0.000266 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| trans-1,2-Dichloroethene | U | | 0.000298 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2-Dichloropropane | U | | 0.000405 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1-Dichloropropene | U | | 0.000358 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| cis-1,3-Dichloropropene | U | | 0.000296 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| trans-1,3-Dichloropropene | U | | 0.000302 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U | | 0.0219 | 0.0706 | 25 | 09/25/2017 14:03 | WG1022131 |
| 2,2-Dichloropropane | U | | 0.000315 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Di-isopropyl ether | U UJ | J0 | 0.000280 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Ethylbenzene | U | | 0.000336 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Hexachloro-1,3-butadiene | U | | 0.000386 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |
| n-Hexane | U | | 0.000328 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Iodomethane | U | | 0.00286 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Isopropylbenzene | U | | 0.000275 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| p-Isopropyltoluene | U | | 0.000231 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 2-Butanone (MEK) | U | | 0.00529 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Methylene Chloride | U | | 0.00113 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00212 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000240 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Naphthalene | U | | 0.00113 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| n-Propylbenzene | U | | 0.000233 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Styrene | U | | 0.000264 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000298 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000412 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000412 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Tetrachloroethene | U | | 0.00780 | 0.0283 | 25 | 09/25/2017 14:03 | WG1022131 |
| Toluene | U | | 0.000490 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000438 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000323 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000313 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Trichloroethene | U | | 0.000315 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000432 | 0.00565 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000837 | 0.00283 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000238 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000324 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000301 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Vinyl acetate | U | | 0.00270 | 0.0113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Vinyl chloride | U | | 0.000329 | 0.00113 | 1 | 09/24/2017 18:09 | WG1022131 |
| Xylenes, Total | U | | 0.000789 | 0.00339 | 1 | 09/24/2017 18:09 | WG1022131 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *09/24/2017 18:09* | WG1022131 |
| *(S) Toluene-d8* | *94.2* | | | *80.0-120* | | *09/25/2017 14:03* | WG1022131 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/25/2017 14:03* | WG1022131 |
| *(S) Dibromofluoromethane* | *97.2* | | | *74.0-131* | | *09/24/2017 18:09* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/24/2017 18:09* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/25/2017 14:03* | WG1022131 |

**Sample Narrative:**

L937125-07 WG1022131: Elevated RL. Bisulfate vials overweight, reported from MEOH vial.

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.3 | | 1 | 09/20/2017 14:29 | WG1022371 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | | mg/kg | mg/kg | | date / time | |
| Acetone | U | UJ | J0 | 0.0116 | 0.0579 | 1 | 09/20/2017 01:35 | WG1022131 |
| Acrylonitrile | U | | | 0.00207 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Benzene | U | | | 0.000313 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Bromobenzene | U | | | 0.000329 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Bromodichloromethane | U | | | 0.000294 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Bromochloromethane | U | | | 0.000452 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| Bromoform | U | UJ | J0 | 0.000491 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Bromomethane | U | | | 0.00155 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| n-Butylbenzene | U | | | 0.000299 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| sec-Butylbenzene | U | | | 0.000233 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| tert-Butylbenzene | U | | | 0.000239 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Carbon disulfide | U | | | 0.000256 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Carbon tetrachloride | U | | | 0.000380 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Chlorobenzene | U | | | 0.000246 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Chlorodibromomethane | U | | | 0.000432 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Chloroethane | U | | | 0.00110 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| Chloroform | U | | | 0.000265 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| Chloromethane | U | | | 0.000434 | 0.00290 | 1 | 09/20/2017 01:35 | WG1022131 |
| 2-Chlorotoluene | U | | | 0.000349 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 4-Chlorotoluene | U | | | 0.000278 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2-Dibromo-3-Chloropropane | U | | | 0.00122 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2-Dibromoethane | U | | | 0.000397 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Dibromomethane | U | | | 0.000443 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2-Dichlorobenzene | U | | | 0.000353 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,3-Dichlorobenzene | U | | | 0.000277 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,4-Dichlorobenzene | U | | | 0.000262 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Dichlorodifluoromethane | U | | | 0.000826 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1-Dichloroethane | U | | | 0.000231 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2-Dichloroethane | U | | | 0.000307 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1-Dichloroethene | U | | | 0.000351 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| cis-1,2-Dichloroethene | U | | | 0.000272 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| trans-1,2-Dichloroethene | U | | | 0.000306 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2-Dichloropropane | U | | | 0.000415 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1-Dichloropropene | U | | | 0.000367 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,3-Dichloropropane | U | | | 0.000240 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| cis-1,3-Dichloropropene | U | | | 0.000303 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| trans-1,3-Dichloropropene | U | | | 0.000309 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| trans-1,4-Dichloro-2-butene | U | UJ | J0 | 0.000901 | 0.00290 | 1 | 09/20/2017 01:35 | WG1022131 |
| 2,2-Dichloropropane | U | | | 0.000323 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Di-isopropyl ether | U | | | 0.000287 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Ethylbenzene | U | | | 0.000344 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Hexachloro-1,3-butadiene | U | | | 0.000396 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 2-Hexanone | U | UJ | J0 | 0.00159 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |
| n-Hexane | U | | | 0.000336 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Iodomethane | U | | | 0.00293 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Isopropylbenzene | U | | | 0.000281 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| p-Isopropyltoluene | U | | | 0.000236 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 2-Butanone (MEK) | U | | | 0.00542 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Methylene Chloride | U | | | 0.00116 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| 4-Methyl-2-pentanone (MIBK) | U | | | 0.00218 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Naphthalene | U | | 0.00116 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000423 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000423 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Toluene | U | | 0.000503 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2,3-Trichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2,4-Trichlorobenzene | U | | 0.000449 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Trichloroethene | U | | 0.000323 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00579 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2,3-Trichloropropane | U | | 0.000858 | 0.00290 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,2,3-Trimethylbenzene | U | | 0.000332 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Vinyl chloride | U | | 0.000337 | 0.00116 | 1 | 09/20/2017 01:35 | WG1022131 |
| Xylenes, Total | U | | 0.000809 | 0.00348 | 1 | 09/20/2017 01:35 | WG1022131 |
| *(S) Toluene-d8* | *94.5* | | | *80.0-120* | | *09/20/2017 01:35* | WG1022131 |
| *(S) Dibromofluoromethane* | *113* | | | *74.0-131* | | *09/20/2017 01:35* | WG1022131 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/20/2017 01:35* | WG1022131 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 6.20 U | B J | 1.05 | 25.0 | 1 | 09/19/2017 18:06 | WG1021889 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| Benzene | 0.275 J | J | 0.0896 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Chloromethane | 0.489 J | J | 0.153 | 1.25 | 1 | 09/19/2017 18:06 | WG1021889 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/23/2017 16:42 | WG1021889 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| n-Hexane | 0.707 J | J | 0.305 | 5.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/19/2017 18:06 | WG1021889 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 2-Butanone (MEK) | 1.50 J | J | 1.28 | 5.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Toluene | 10.4 | | 0.412 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/19/2017 18:06 | WG1021889 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/19/2017 18:06 | WG1021889 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/19/2017 18:06 | WG1021889 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/23/2017 16:42* | WG1021889 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/19/2017 18:06* | WG1021889 |
| *(S) Dibromofluoromethane* | *97.7* | | | *76.0-123* | | *09/23/2017 16:42* | WG1021889 |
| *(S) Dibromofluoromethane* | *98.0* | | | *76.0-123* | | *09/19/2017 18:06* | WG1021889 |
| *(S) 4-Bromofluorobenzene* | *95.2* | | | *80.0-120* | | *09/19/2017 18:06* | WG1021889 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *09/23/2017 16:42* | WG1021889 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 1.39 | B J | 1.05 | 25.0 | 1 | 09/19/2017 12:20 | WG1021889 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/19/2017 12:20 | WG1021889 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/23/2017 17:21 | WG1021889 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/19/2017 12:20 | WG1021889 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |

JC 10/16/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/19/2017 12:20 | WG1021889 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/19/2017 12:20 | WG1021889 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/19/2017 12:20 | WG1021889 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/23/2017 17:21* | WG1021889 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/19/2017 12:20* | WG1021889 |
| *(S) Dibromofluoromethane* | *99.9* | | | *76.0-123* | | *09/23/2017 17:21* | WG1021889 |
| *(S) Dibromofluoromethane* | *99.7* | | | *76.0-123* | | *09/19/2017 12:20* | WG1021889 |
| *(S) 4-Bromofluorobenzene* | *98.3* | | | *80.0-120* | | *09/23/2017 17:21* | WG1021889 |
| *(S) 4-Bromofluorobenzene* | *91.8* | | | *80.0-120* | | *09/19/2017 12:20* | WG1021889 |



JC 10/16/17

## Bill Haldeman

**From:** J Compeau <Informa_LLC@comcast.net>
**Sent:** Tuesday, October 17, 2017 9:47 AM
**To:** Bill Haldeman
**Subject:** FW: American Linen L937125

Communication for your records. The footnote seemed a little cryptic.

Thanks

Jessie

---

**From:** Brian Ford [mailto:BFord@esclabsciences.com]
**Sent:** Monday, October 16, 2017 2:59 PM
**To:** 'J Compeau'
**Subject:** RE: American Linen L937125

Jessie,

We received (2) low level sodium bisulfite preserved vials per sample. In this case, one of the vials for each sample had >7.5g of soil and was therefore unusable. This can be caused by dense matrix, soil extending beyond the sample T and not removed prior to addition to vials, or adding more than one plug of soil to the vial. The plug of soil should weigh about 5g.

These two compounds were not reportable from the initial 1x analysis due to failing CCV/RL checks, and had to be reanalyzed from the high level MeOH preserved vial. Let me know if you need any additional information.

Thanks,

Brian Ford
*Technical Service Representative*
**ESC Lab Sciences**-a subsidiary of Pace Analytical
12065 Lebanon Road | Mt. Juliet, TN 37122
615.773.9772 | Cell 931.510.2229
bford@esclabsciences.com | www.esclabsciences.com

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**From:** J Compeau [mailto:Informa_LLC@comcast.net]
**Sent:** Monday, October 16, 2017 4:44 PM
**To:** Brian Ford
**Subject:** American Linen L937125

Hello,

Can you please elaborate on footnotes for ESC SDG L937125-01 and 07? Elevated RL Bisulfate vials overweight, reported from ME0H. The elevated RL only applies to two compounds (trans-1,4-dichloro-2-butene and tetrachloroethene).

Thanks!

Jessie

Notice: This communication and any attached files may contain privileged or other confidential information. If you have received this in error, please contact the sender immediately via reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.

# ANALYTICAL REPORT

September 27, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L937802 |
| Samples Received: | 09/20/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## MW-141-15 L937802-01 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 09/18/17 09:05 | 09/20/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023602 | 1 | 09/25/17 11:41 | 09/25/17 12:05 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023207 | 1 | 09/18/17 09:05 | 09/21/17 20:18 | JHH |

## MW-141-35 L937802-02 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 09/18/17 10:15 | 09/20/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023602 | 1 | 09/25/17 11:41 | 09/25/17 12:05 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023207 | 1 | 09/18/17 10:15 | 09/21/17 20:36 | JHH |

## MW-141-46 L937802-03 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 09/18/17 10:35 | 09/20/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023602 | 1 | 09/25/17 11:41 | 09/25/17 12:05 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023207 | 1 | 09/18/17 10:35 | 09/21/17 20:53 | JHH |

## MW-141-56 L937802-04 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 09/18/17 11:25 | 09/20/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023602 | 1 | 09/25/17 11:41 | 09/25/17 12:05 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023207 | 1 | 09/18/17 11:25 | 09/21/17 21:11 | JHH |

## MW-141-65 L937802-05 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 09/18/17 11:50 | 09/20/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023603 | 1 | 09/25/17 12:08 | 09/25/17 12:28 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023207 | 1 | 09/18/17 11:50 | 09/21/17 21:28 | JHH |

## MW-141-75 L937802-06 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 09/18/17 14:20 | 09/20/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023603 | 1 | 09/25/17 12:08 | 09/25/17 12:28 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023207 | 1 | 09/18/17 14:20 | 09/21/17 21:45 | JHH |

## MW-141-85 L937802-07 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Shannon McKernan | 09/18/17 15:05 | 09/20/17 08:45 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023603 | 1 | 09/25/17 12:08 | 09/25/17 12:28 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023207 | 1 | 09/18/17 15:05 | 09/26/17 16:13 | BMB |

## MW-141-95 L937802-08 Solid

Collected by: Shannon McKernan
Collected date/time: 09/18/17 16:05
Received date/time: 09/20/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023603 | 1 | 09/25/17 12:08 | 09/25/17 12:28 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023207 | 1 | 09/18/17 16:05 | 09/21/17 22:20 | JHH |

## MW-141-105 L937802-09 Solid

Collected by: Shannon McKernan
Collected date/time: 09/19/17 08:45
Received date/time: 09/20/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023603 | 1 | 09/25/17 12:08 | 09/25/17 12:28 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023207 | 1 | 09/19/17 08:45 | 09/21/17 22:38 | JHH |

## MW-141-105-W L937802-10 GW

Collected by: Shannon McKernan
Collected date/time: 09/19/17 09:00
Received date/time: 09/20/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023529 | 1 | 09/22/17 15:09 | 09/22/17 15:09 | JHH |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.6 | | 1 | 09/25/2017 12:05 | WG1023602 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.382 | J0 J3 | 0.0113 | 0.0564 | 1 | 09/21/2017 20:18 | WG1023207 |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Benzene | U | | 0.000305 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Bromobenzene | U | | 0.000320 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Bromodichloromethane | U | | 0.000287 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Bromochloromethane | U | | 0.000440 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| Bromoform | U | | 0.000478 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Bromomethane | U | | 0.00151 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| n-Butylbenzene | U | | 0.000291 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| sec-Butylbenzene | U | | 0.000227 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| tert-Butylbenzene | U | | 0.000232 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Carbon disulfide | U | | 0.000249 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Carbon tetrachloride | U | | 0.000370 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Chlorobenzene | U | | 0.000239 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Chlorodibromomethane | U | | 0.000421 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Chloroethane | U | | 0.00107 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| Chloroform | U | | 0.000258 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| Chloromethane | U | | 0.000423 | 0.00282 | 1 | 09/21/2017 20:18 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000340 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000271 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000387 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Dibromomethane | U | | 0.000431 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000344 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000270 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000255 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000804 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000224 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000299 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000342 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| cis-1,2-Dichloroethene | 0.00128 | | 0.000265 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000298 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000404 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000358 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000296 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000301 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000878 | 0.00282 | 1 | 09/21/2017 20:18 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000315 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Di-isopropyl ether | U | | 0.000280 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Ethylbenzene | U | | 0.000335 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000386 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 2-Hexanone | U | J0 | 0.00155 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |
| n-Hexane | U | | 0.000327 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Iodomethane | U | | 0.00285 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Isopropylbenzene | U | | 0.000274 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000230 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 2-Butanone (MEK) | 0.179 | J0 J3 | 0.00528 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Methylene Chloride | U | | 0.00113 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00212 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000239 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Naphthalene | U | | 0.00113 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| n-Propylbenzene | U | | 0.000232 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Styrene | U | | 0.000264 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000298 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000412 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000412 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Tetrachloroethene | U | | 0.000311 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Toluene | U | | 0.000490 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000438 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000323 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000312 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Trichloroethene | U | | 0.000315 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000431 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000836 | 0.00282 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000238 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000324 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000300 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Vinyl acetate | U | | 0.00270 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Vinyl chloride | 0.000388 | J | 0.000328 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Xylenes, Total | U | | 0.000787 | 0.00338 | 1 | 09/21/2017 20:18 | WG1023207 |
| *(S) Toluene-d8* | *96.0* | | | *80.0-120* | | *09/21/2017 20:18* | WG1023207 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/21/2017 20:18* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/21/2017 20:18* | WG1023207 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.2 | | 1 | 09/25/2017 12:05 | WG1023602 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0116 | 0.0580 | 1 | 09/21/2017 20:36 | WG1023207 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Bromochloromethane | U | | 0.000452 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| Bromoform | U | | 0.000492 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Bromomethane | U | | 0.00155 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Carbon disulfide | 0.000351 | J | 0.000256 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Chloroethane | U | | 0.00110 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| Chloroform | U | | 0.000266 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| Chloromethane | U | | 0.000435 | 0.00290 | 1 | 09/21/2017 20:36 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000398 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000827 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000352 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| cis-1,2-Dichloroethene | 0.000473 | J | 0.000273 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000306 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000415 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000903 | 0.00290 | 1 | 09/21/2017 20:36 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 2-Hexanone | U | J0 | 0.00159 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |
| n-Hexane | 0.000542 | J | 0.000336 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 2-Butanone (MEK) | U | J0 J3 | 0.00543 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Methylene Chloride | U | | 0.00116 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Naphthalene | U | | 0.00116 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000423 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000423 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Toluene | U | | 0.000504 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Trichloroethene | U | | 0.000324 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000860 | 0.00290 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Vinyl chloride | U | | 0.000338 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Xylenes, Total | U | | 0.000810 | 0.00348 | 1 | 09/21/2017 20:36 | WG1023207 |
| *(S) Toluene-d8* | *94.0* | | | *80.0-120* | | *09/21/2017 20:36* | WG1023207 |
| *(S) Dibromofluoromethane* | *119* | | | *74.0-131* | | *09/21/2017 20:36* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/21/2017 20:36* | WG1023207 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.5 | | 1 | 09/25/2017 12:05 | WG1023602 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0198 | J J0 J3 | 0.0109 | 0.0547 | 1 | 09/21/2017 20:53 | WG1023207 |
| Acrylonitrile | U | | 0.00196 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Benzene | U | | 0.000295 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Bromobenzene | U | | 0.000311 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Bromodichloromethane | U | | 0.000278 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Bromochloromethane | U | | 0.000426 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| Bromoform | U | | 0.000464 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Bromomethane | U | | 0.00147 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| n-Butylbenzene | U | | 0.000282 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| sec-Butylbenzene | U | | 0.000220 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Carbon disulfide | 0.00126 | | 0.000242 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Carbon tetrachloride | U | | 0.000359 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Chlorobenzene | U | | 0.000232 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Chlorodibromomethane | U | | 0.000408 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Chloroethane | U | | 0.00103 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| Chloroform | U | | 0.000250 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| Chloromethane | U | | 0.000410 | 0.00273 | 1 | 09/21/2017 20:53 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000329 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000375 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Dibromomethane | U | | 0.000418 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000247 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000780 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000218 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000290 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000331 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| cis-1,2-Dichloroethene | 0.00329 | | 0.000257 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000289 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000391 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000347 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000292 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000851 | 0.00273 | 1 | 09/21/2017 20:53 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000305 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Di-isopropyl ether | U | | 0.000271 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Ethylbenzene | U | | 0.000325 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000374 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 2-Hexanone | U | J0 | 0.00150 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |
| n-Hexane | 0.00427 | J | 0.000317 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Iodomethane | U | | 0.00277 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Isopropylbenzene | U | | 0.000266 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 2-Butanone (MEK) | U | J0 J3 | 0.00512 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Methylene Chloride | U | | 0.00109 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00206 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000232 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Naphthalene | U | | 0.00109 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Styrene | U | | 0.000256 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000289 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000399 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000399 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Tetrachloroethene | 0.000357 | J | 0.000302 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Toluene | U | | 0.000475 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000335 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000424 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000313 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000303 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Trichloroethene | 0.000424 | J | 0.000305 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000418 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000810 | 0.00273 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000231 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000314 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000291 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Vinyl chloride | 0.00194 | | 0.000318 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Xylenes, Total | U | | 0.000763 | 0.00328 | 1 | 09/21/2017 20:53 | WG1023207 |
| *(S) Toluene-d8* | *93.8* | | | *80.0-120* | | *09/21/2017 20:53* | WG1023207 |
| *(S) Dibromofluoromethane* | *116* | | | *74.0-131* | | *09/21/2017 20:53* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/21/2017 20:53* | WG1023207 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.0 | | 1 | 09/25/2017 12:05 | WG1023602 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0106 | 0.0532 | 1 | 09/21/2017 21:11 | WG1023207 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Benzene | U | | 0.000287 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Bromobenzene | U | | 0.000302 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Bromodichloromethane | U | | 0.000270 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Bromochloromethane | U | | 0.000415 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| Bromoform | U | | 0.000451 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Bromomethane | U | | 0.00143 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| n-Butylbenzene | U | | 0.000274 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| sec-Butylbenzene | U | | 0.000214 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| tert-Butylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Carbon disulfide | 0.000836 | J | 0.000235 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Carbon tetrachloride | U | | 0.000349 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Chlorobenzene | U | | 0.000226 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Chlorodibromomethane | U | | 0.000397 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Chloroethane | U | | 0.00101 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| Chloroform | U | | 0.000244 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| Chloromethane | U | | 0.000399 | 0.00266 | 1 | 09/21/2017 21:11 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000320 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000365 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Dibromomethane | U | | 0.000406 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000324 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000254 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000240 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000758 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000282 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000322 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| cis-1,2-Dichloroethene | 0.000474 | J | 0.000250 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000281 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000381 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000337 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000284 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000828 | 0.00266 | 1 | 09/21/2017 21:11 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Di-isopropyl ether | U | | 0.000264 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Ethylbenzene | U | | 0.000316 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000364 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 2-Hexanone | U | J0 | 0.00146 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |
| n-Hexane | 0.00226 | J | 0.000308 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Iodomethane | U | | 0.00269 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Isopropylbenzene | U | | 0.000258 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 2-Butanone (MEK) | U | J0 J3 | 0.00498 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Methylene Chloride | U | | 0.00106 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Naphthalene | U | | 0.00106 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| n-Propylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Styrene | U | | 0.000249 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000388 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000388 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Tetrachloroethene | U | | 0.000294 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Toluene | U | | 0.000462 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000413 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000304 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Trichloroethene | U | | 0.000297 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000406 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000788 | 0.00266 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000224 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000305 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000283 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Vinyl acetate | U | | 0.00254 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Vinyl chloride | U | | 0.000310 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Xylenes, Total | U | | 0.000742 | 0.00319 | 1 | 09/21/2017 21:11 | WG1023207 |
| *(S) Toluene-d8* | *92.9* | | | *80.0-120* | | *09/21/2017 21:11* | WG1023207 |
| *(S) Dibromofluoromethane* | *118* | | | *74.0-131* | | *09/21/2017 21:11* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *09/21/2017 21:11* | WG1023207 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 95.1 | | 1 | 09/25/2017 12:28 | WG1023603 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0110 | J J0 J3 | 0.0105 | 0.0526 | 1 | 09/21/2017 21:28 | WG1023207 |
| Acrylonitrile | U | | 0.00188 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Benzene | U | | 0.000284 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Bromobenzene | U | | 0.000299 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Bromodichloromethane | U | | 0.000267 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Bromochloromethane | U | | 0.000410 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| Bromoform | U | | 0.000446 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Bromomethane | U | | 0.00141 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| n-Butylbenzene | U | | 0.000271 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| sec-Butylbenzene | U | | 0.000211 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| tert-Butylbenzene | U | | 0.000217 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Carbon disulfide | 0.000894 | J | 0.000232 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Carbon tetrachloride | U | | 0.000345 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Chlorobenzene | U | | 0.000223 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Chlorodibromomethane | U | | 0.000392 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Chloroethane | U | | 0.000995 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| Chloroform | U | | 0.000241 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| Chloromethane | U | | 0.000394 | 0.00263 | 1 | 09/21/2017 21:28 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000317 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000252 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00110 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000361 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Dibromomethane | U | | 0.000402 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000321 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000251 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000238 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000750 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000209 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000279 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000319 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| cis-1,2-Dichloroethene | U | | 0.000247 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000278 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000377 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000333 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000218 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000276 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000281 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000818 | 0.00263 | 1 | 09/21/2017 21:28 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000293 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Di-isopropyl ether | U | | 0.000261 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Ethylbenzene | U | | 0.000312 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000360 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 2-Hexanone | U | J0 | 0.00144 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |
| n-Hexane | 0.00497 | J | 0.000305 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Iodomethane | U | | 0.00266 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Isopropylbenzene | U | | 0.000256 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000215 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 2-Butanone (MEK) | U | J0 J3 | 0.00492 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Methylene Chloride | U | | 0.00105 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00198 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000223 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Naphthalene | U | | 0.00105 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| n-Propylbenzene | U | | 0.000217 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Styrene | U | | 0.000246 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000278 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000384 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000384 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Tetrachloroethene | U | | 0.000290 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Toluene | U | | 0.000457 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000322 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000408 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000301 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000291 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Trichloroethene | U | | 0.000293 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000402 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000779 | 0.00263 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000222 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000302 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000280 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Vinyl acetate | U | | 0.00251 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Vinyl chloride | U | | 0.000306 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Xylenes, Total | U | | 0.000734 | 0.00316 | 1 | 09/21/2017 21:28 | WG1023207 |
| *(S) Toluene-d8* | *93.4* | | | *80.0-120* | | *09/21/2017 21:28* | WG1023207 |
| *(S) Dibromofluoromethane* | *116* | | | *74.0-131* | | *09/21/2017 21:28* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *09/21/2017 21:28* | WG1023207 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.8 | | 1 | 09/25/2017 12:28 | WG1023603 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0160 | J J0 J3 | 0.0107 | 0.0533 | 1 | 09/21/2017 21:45 | WG1023207 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Benzene | 0.000480 | J | 0.000288 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Bromobenzene | U | | 0.000303 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Bromodichloromethane | U | | 0.000271 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Bromochloromethane | U | | 0.000416 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| Bromoform | U | | 0.000452 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Bromomethane | U | | 0.00143 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| n-Butylbenzene | U | | 0.000275 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| sec-Butylbenzene | U | | 0.000214 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Carbon disulfide | 0.00357 | | 0.000236 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Carbon tetrachloride | U | | 0.000350 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Chlorobenzene | U | | 0.000226 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Chlorodibromomethane | U | | 0.000398 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Chloroethane | U | | 0.00101 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| Chloroform | U | | 0.000244 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| Chloromethane | U | | 0.000400 | 0.00266 | 1 | 09/21/2017 21:45 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000321 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000256 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000366 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Dibromomethane | U | | 0.000407 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000255 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000760 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000282 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000323 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| cis-1,2-Dichloroethene | U | | 0.000251 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000281 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000382 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000338 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000285 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000829 | 0.00266 | 1 | 09/21/2017 21:45 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Di-isopropyl ether | U | | 0.000264 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Ethylbenzene | U | | 0.000317 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000365 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 2-Hexanone | U | J0 | 0.00146 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |
| n-Hexane | 0.00845 | J | 0.000309 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Iodomethane | U | | 0.00270 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Isopropylbenzene | U | | 0.000259 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 2-Butanone (MEK) | U | J0 J3 | 0.00499 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Methylene Chloride | U | | 0.00107 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Naphthalene | U | | 0.00107 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Styrene | U | | 0.000249 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000389 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000389 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Tetrachloroethene | U | | 0.000294 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Toluene | U | | 0.000463 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000414 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000305 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Trichloroethene | U | | 0.000297 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000407 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000790 | 0.00266 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000306 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000284 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Vinyl acetate | U | | 0.00255 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Vinyl chloride | U | | 0.000310 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Xylenes, Total | U | | 0.000744 | 0.00320 | 1 | 09/21/2017 21:45 | WG1023207 |
| *(S) Toluene-d8* | *91.7* | | | *80.0-120* | | *09/21/2017 21:45* | WG1023207 |
| *(S) Dibromofluoromethane* | *114* | | | *74.0-131* | | *09/21/2017 21:45* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/21/2017 21:45* | WG1023207 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.6 | | 1 | 09/25/2017 12:28 | WG1023603 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J3 | 0.0117 | 0.0584 | 1 | 09/26/2017 16:13 | WG1023207 |
| Acrylonitrile | U | J0 | 0.00209 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Benzene | U | | 0.000315 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Bromobenzene | U | | 0.000332 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Bromodichloromethane | U | | 0.000297 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Bromochloromethane | U | | 0.000455 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 |
| Bromoform | U | | 0.000495 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Bromomethane | U | | 0.00156 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 |
| n-Butylbenzene | U | | 0.000301 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| sec-Butylbenzene | U | | 0.000235 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| tert-Butylbenzene | U | | 0.000241 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Carbon disulfide | 0.000448 | J | 0.000258 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Carbon tetrachloride | U | | 0.000383 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Chlorobenzene | U | | 0.000248 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Chlorodibromomethane | U | | 0.000436 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Chloroethane | U | | 0.00110 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 |
| Chloroform | U | | 0.000267 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 |
| Chloromethane | U | | 0.000438 | 0.00292 | 1 | 09/26/2017 16:13 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000352 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000280 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00123 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000401 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Dibromomethane | U | | 0.000446 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2-Dichlorobenzene | U | J3 | 0.000356 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,3-Dichlorobenzene | U | J3 | 0.000279 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,4-Dichlorobenzene | U | J3 | 0.000264 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000833 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000232 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000309 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000354 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| cis-1,2-Dichloroethene | U | | 0.000274 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000308 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000418 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000370 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000242 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000306 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000312 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000909 | 0.00292 | 1 | 09/26/2017 16:13 | WG1023207 |
| 2,2-Dichloropropane | U | J0 | 0.000326 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Di-isopropyl ether | U | | 0.000290 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Ethylbenzene | U | | 0.000347 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000399 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 2-Hexanone | U | | 0.00160 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 |
| n-Hexane | 0.000898 | J | 0.000339 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Iodomethane | U | | 0.00295 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Isopropylbenzene | U | | 0.000284 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000238 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 2-Butanone (MEK) | U | J3 | 0.00547 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Methylene Chloride | U | | 0.00117 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.00220 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | J0 | 0.000248 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Naphthalene | U | J3 | 0.00117 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 |
| n-Propylbenzene | U | | 0.000241 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Styrene | U | | 0.000273 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000308 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000426 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000426 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Tetrachloroethene | U | | 0.000322 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Toluene | U | | 0.000507 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | J3 | 0.000357 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.000453 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000334 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000323 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Trichloroethene | U | | 0.000326 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000446 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000865 | 0.00292 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000246 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000335 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000311 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Vinyl acetate | U | | 0.00279 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Vinyl chloride | U | | 0.000340 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Xylenes, Total | U | | 0.000815 | 0.00350 | 1 | 09/26/2017 16:13 | WG1023207 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/26/2017 16:13* | WG1023207 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *09/26/2017 16:13* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/26/2017 16:13* | WG1023207 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.5 | | 1 | 09/25/2017 12:28 | WG1023603 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0120 | 0.0599 | 1 | 09/21/2017 22:20 | WG1023207 |
| Acrylonitrile | U | | 0.00214 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Benzene | U | | 0.000323 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Bromobenzene | U | | 0.000340 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Bromodichloromethane | U | | 0.000304 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Bromochloromethane | U | | 0.000467 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| Bromoform | U | | 0.000508 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Bromomethane | U | | 0.00161 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| n-Butylbenzene | U | | 0.000309 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| sec-Butylbenzene | U | | 0.000241 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| tert-Butylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Carbon disulfide | U | | 0.000265 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Carbon tetrachloride | U | | 0.000393 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Chlorobenzene | U | | 0.000254 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Chlorodibromomethane | U | | 0.000447 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Chloroethane | U | | 0.00113 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| Chloroform | U | | 0.000274 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| Chloromethane | U | | 0.000449 | 0.00299 | 1 | 09/21/2017 22:20 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000361 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000287 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000411 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Dibromomethane | U | | 0.000458 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000365 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000286 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000271 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000854 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000238 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000317 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000363 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| cis-1,2-Dichloroethene | U | | 0.000281 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000316 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000429 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000380 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000248 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000314 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000320 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000932 | 0.00299 | 1 | 09/21/2017 22:20 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000334 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Di-isopropyl ether | U | | 0.000297 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Ethylbenzene | U | | 0.000356 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000410 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 2-Hexanone | U | J0 | 0.00164 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |
| n-Hexane | U | | 0.000347 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Iodomethane | U | | 0.00303 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Isopropylbenzene | U | | 0.000291 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000244 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 2-Butanone (MEK) | U | J0 J3 | 0.00561 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Methylene Chloride | U | | 0.00120 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00225 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000254 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Naphthalene | U | | 0.00120 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| n-Propylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Styrene | U | | 0.000280 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000316 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000437 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000437 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Tetrachloroethene | U | | 0.000331 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Toluene | U | | 0.000520 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000465 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000343 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000332 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Trichloroethene | U | | 0.000334 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000458 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000888 | 0.00299 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000253 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000344 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000319 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Vinyl acetate | U | | 0.00286 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Vinyl chloride | U | | 0.000349 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Xylenes, Total | U | | 0.000836 | 0.00359 | 1 | 09/21/2017 22:20 | WG1023207 |
| *(S) Toluene-d8* | *95.7* | | | *80.0-120* | | *09/21/2017 22:20* | WG1023207 |
| *(S) Dibromofluoromethane* | *116* | | | *74.0-131* | | *09/21/2017 22:20* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *09/21/2017 22:20* | WG1023207 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.8 | | 1 | 09/25/2017 12:28 | WG1023603 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.0119 | 0.0597 | 1 | 09/21/2017 22:38 | WG1023207 |
| Acrylonitrile | U | | 0.00214 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Benzene | U | | 0.000322 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Bromobenzene | U | | 0.000339 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Bromodichloromethane | U | | 0.000303 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Bromochloromethane | U | | 0.000466 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| Bromoform | U | | 0.000506 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Bromomethane | U | | 0.00160 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| n-Butylbenzene | U | | 0.000308 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| sec-Butylbenzene | U | | 0.000240 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| tert-Butylbenzene | U | | 0.000246 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Carbon disulfide | U | | 0.000264 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Carbon tetrachloride | U | | 0.000392 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Chlorobenzene | U | | 0.000253 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Chlorodibromomethane | U | | 0.000445 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Chloroethane | U | | 0.00113 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| Chloroform | U | | 0.000273 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| Chloromethane | U | | 0.000448 | 0.00298 | 1 | 09/21/2017 22:38 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000359 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000287 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000409 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Dibromomethane | U | | 0.000456 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000364 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000285 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000270 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000851 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000238 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000316 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000362 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| cis-1,2-Dichloroethene | U | | 0.000281 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000315 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000427 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000378 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000247 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000313 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000319 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000929 | 0.00298 | 1 | 09/21/2017 22:38 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000333 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Di-isopropyl ether | U | | 0.000296 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Ethylbenzene | U | | 0.000355 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000408 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 2-Hexanone | U | J0 | 0.00164 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |
| n-Hexane | U | | 0.000346 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Iodomethane | U | | 0.00302 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Isopropylbenzene | U | | 0.000290 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000244 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 2-Butanone (MEK) | U | J0 J3 | 0.00559 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Methylene Chloride | U | | 0.00119 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00224 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000253 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Naphthalene | U | | 0.00119 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| n-Propylbenzene | U | | 0.000246 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Styrene | U | | 0.000279 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000315 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000436 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000436 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Tetrachloroethene | U | | 0.000330 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Toluene | U | | 0.000518 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000365 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000463 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000341 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000331 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Trichloroethene | U | | 0.000333 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000456 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000885 | 0.00298 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000252 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000343 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000318 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Vinyl acetate | U | | 0.00285 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Vinyl chloride | U | | 0.000347 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Xylenes, Total | U | | 0.000833 | 0.00358 | 1 | 09/21/2017 22:38 | WG1023207 |
| *(S) Toluene-d8* | *92.0* | | | *80.0-120* | | *09/21/2017 22:38* | WG1023207 |
| *(S) Dibromofluoromethane* | *118* | | | *74.0-131* | | *09/21/2017 22:38* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/21/2017 22:38* | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 8.14 | J | 1.05 | 25.0 | 1 | 09/22/2017 15:09 | WG1023529 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| Benzene | 0.286 | J | 0.0896 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/22/2017 15:09 | WG1023529 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| cis-1,2-Dichloroethene | 0.148 | J | 0.0933 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Ethylbenzene | 0.158 | J | 0.158 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/22/2017 15:09 | WG1023529 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 2-Butanone (MEK) | 1.86 | J | 1.28 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Toluene | 88.5 | | 0.412 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Xylenes, Total | 0.472 | J | 0.316 | 1.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| *(S) Toluene-d8* | *99.7* | | | *80.0-120* | | *09/22/2017 15:09* | WG1023529 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/22/2017 15:09* | WG1023529 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *09/22/2017 15:09* | WG1023529 |

## Method Blank (MB)

(MB) R3252192-1 09/25/17 12:05

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000700 | | | |

## L937761-19 Original Sample (OS) • Duplicate (DUP)

(OS) L937761-19 09/25/17 12:05 • (DUP) R3252192-3 09/25/17 12:05

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 79.6 | 79.1 | 1 | 0.672 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3252192-2 09/25/17 12:05

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3252193-1 09/25/17 12:28

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000800 | | | |

## L937802-05 Original Sample (OS) • Duplicate (DUP)

(OS) L937802-05 09/25/17 12:28 • (DUP) R3252193-3 09/25/17 12:28

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 95.1 | 94.6 | 1 | 0.501 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3252193-2 09/25/17 12:28

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3252278-3 09/21/17 19:43

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3252278-3 09/21/17 19:43

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3252278-1 09/21/17 18:51 • (LCSD) R3252278-2 09/21/17 19:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0776 | 0.119 | 62.1 | 95.1 | 11.0-160 | | J3 | 42.1 | 23 |
| Benzene | 0.0250 | 0.0263 | 0.0285 | 105 | 114 | 71.0-124 | | | 7.96 | 20 |
| Acrylonitrile | 0.125 | 0.113 | 0.125 | 90.7 | 100 | 61.0-143 | | | 9.95 | 20 |
| Bromodichloromethane | 0.0250 | 0.0235 | 0.0244 | 94.0 | 97.5 | 75.0-120 | | | 3.72 | 20 |
| Bromobenzene | 0.0250 | 0.0245 | 0.0276 | 97.9 | 110 | 78.0-120 | | | 11.9 | 20 |
| Bromochloromethane | 0.0250 | 0.0249 | 0.0277 | 99.5 | 111 | 80.0-121 | | | 10.9 | 20 |
| Bromoform | 0.0250 | 0.0196 | 0.0214 | 78.3 | 85.6 | 65.0-133 | | | 8.88 | 20 |
| Bromomethane | 0.0250 | 0.0256 | 0.0283 | 102 | 113 | 26.0-160 | | | 10.0 | 20 |
| n-Butylbenzene | 0.0250 | 0.0260 | 0.0285 | 104 | 114 | 73.0-126 | | | 8.97 | 20 |
| Carbon disulfide | 0.0250 | 0.0249 | 0.0274 | 99.6 | 110 | 53.0-130 | | | 9.63 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0254 | 0.0276 | 102 | 110 | 75.0-121 | | | 8.20 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0263 | 0.0285 | 105 | 114 | 66.0-123 | | | 7.99 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0249 | 0.0268 | 99.6 | 107 | 74.0-122 | | | 7.31 | 20 |
| Chlorobenzene | 0.0250 | 0.0230 | 0.0236 | 92.1 | 94.4 | 79.0-121 | | | 2.50 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0211 | 0.0220 | 84.5 | 87.8 | 74.0-128 | | | 3.81 | 20 |
| Chloroethane | 0.0250 | 0.0268 | 0.0288 | 107 | 115 | 51.0-147 | | | 7.00 | 20 |
| Chloroform | 0.0250 | 0.0272 | 0.0293 | 109 | 117 | 73.0-123 | | | 7.20 | 20 |
| Chloromethane | 0.0250 | 0.0201 | 0.0219 | 80.4 | 87.5 | 51.0-138 | | | 8.40 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0214 | 0.0228 | 85.7 | 91.2 | 65.0-126 | | | 6.24 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0263 | 0.0288 | 105 | 115 | 72.0-124 | | | 9.25 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0228 | 0.0225 | 91.1 | 90.2 | 78.0-122 | | | 1.05 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0251 | 0.0272 | 100 | 109 | 78.0-120 | | | 8.25 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0254 | 0.0271 | 102 | 108 | 80.0-120 | | | 6.32 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0257 | 0.0272 | 103 | 109 | 72.0-123 | | | 5.44 | 20 |
| Dibromomethane | 0.0250 | 0.0236 | 0.0233 | 94.3 | 93.1 | 79.0-120 | | | 1.26 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0236 | 0.0251 | 94.2 | 101 | 77.0-120 | | | 6.44 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0212 | 0.0221 | 84.8 | 88.6 | 49.0-155 | | | 4.33 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0208 | 0.0206 | 83.2 | 82.6 | 68.0-126 | | | 0.780 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0271 | 0.0290 | 109 | 116 | 70.0-128 | | | 6.71 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0257 | 0.0281 | 103 | 112 | 69.0-128 | | | 9.19 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0276 | 0.0301 | 111 | 120 | 63.0-131 | | | 8.36 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0254 | 0.0273 | 102 | 109 | 74.0-123 | | | 7.23 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0258 | 0.0274 | 103 | 110 | 72.0-122 | | | 6.07 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0254 | 0.0261 | 102 | 104 | 75.0-126 | | | 2.63 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0254 | 0.0280 | 102 | 112 | 72.0-130 | | | 9.59 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0252 | 0.0251 | 101 | 101 | 80.0-125 | | | 0.190 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0227 | 0.0231 | 90.8 | 92.6 | 80.0-121 | | | 1.97 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0227 | 0.0232 | 90.6 | 92.9 | 75.0-129 | | | 2.49 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0261 | 0.0281 | 104 | 112 | 60.0-129 | | | 7.33 | 20 |
| Ethylbenzene | 0.0250 | 0.0222 | 0.0229 | 88.8 | 91.6 | 77.0-120 | | | 3.11 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3252278-1 09/21/17 18:51 • (LCSD) R3252278-2 09/21/17 19:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Di-isopropyl ether | 0.0250 | 0.0253 | 0.0268 | 101 | 107 | 62.0-133 | | | 5.74 | 20 |
| 2-Hexanone | 0.125 | 0.108 | 0.122 | 86.1 | 97.6 | 61.0-143 | | | 12.6 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0219 | 0.0233 | 87.7 | 93.3 | 68.0-128 | | | 6.20 | 20 |
| Isopropylbenzene | 0.0250 | 0.0248 | 0.0273 | 99.4 | 109 | 75.0-120 | | | 9.39 | 20 |
| n-Hexane | 0.0250 | 0.0211 | 0.0222 | 84.5 | 89.0 | 57.0-125 | | | 5.11 | 20 |
| Iodomethane | 0.125 | 0.129 | 0.143 | 103 | 114 | 67.0-132 | | | 10.2 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0989 | 0.130 | 79.1 | 104 | 37.0-159 | | J3 | 27.0 | 20 |
| Methylene Chloride | 0.0250 | 0.0264 | 0.0293 | 106 | 117 | 67.0-123 | | | 10.3 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0263 | 0.0281 | 105 | 112 | 74.0-125 | | | 6.49 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.110 | 0.111 | 87.9 | 89.2 | 60.0-144 | | | 1.44 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0264 | 0.0288 | 106 | 115 | 66.0-125 | | | 8.55 | 20 |
| Naphthalene | 0.0250 | 0.0256 | 0.0263 | 102 | 105 | 64.0-125 | | | 2.74 | 20 |
| Styrene | 0.0250 | 0.0258 | 0.0276 | 103 | 111 | 78.0-124 | | | 6.93 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0265 | 0.0276 | 106 | 110 | 73.0-120 | | | 4.05 | 20 |
| n-Propylbenzene | 0.0250 | 0.0259 | 0.0280 | 104 | 112 | 78.0-120 | | | 7.82 | 20 |
| Tetrachloroethene | 0.0250 | 0.0207 | 0.0210 | 82.7 | 83.9 | 70.0-127 | | | 1.38 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0236 | 0.0240 | 94.5 | 96.1 | 74.0-124 | | | 1.61 | 20 |
| Toluene | 0.0250 | 0.0226 | 0.0233 | 90.3 | 93.3 | 77.0-120 | | | 3.20 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0266 | 0.0296 | 107 | 118 | 64.0-135 | | | 10.4 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0259 | 0.0264 | 104 | 106 | 68.0-126 | | | 1.87 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0237 | 0.0246 | 94.9 | 98.3 | 70.0-127 | | | 3.50 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0252 | 0.0283 | 101 | 113 | 69.0-125 | | | 11.6 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0221 | 0.0227 | 88.3 | 90.9 | 78.0-120 | | | 2.88 | 20 |
| Trichloroethene | 0.0250 | 0.0230 | 0.0237 | 92.1 | 95.0 | 79.0-120 | | | 3.05 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0266 | 0.0290 | 107 | 116 | 59.0-136 | | | 8.58 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0267 | 0.0271 | 107 | 108 | 73.0-124 | | | 1.50 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0242 | 0.0262 | 96.8 | 105 | 76.0-120 | | | 8.08 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0255 | 0.0280 | 102 | 112 | 75.0-120 | | | 9.34 | 20 |
| Vinyl chloride | 0.0250 | 0.0239 | 0.0263 | 95.4 | 105 | 63.0-134 | | | 9.90 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0257 | 0.0278 | 103 | 111 | 75.0-120 | | | 8.02 | 20 |
| Xylenes, Total | 0.0750 | 0.0692 | 0.0709 | 92.3 | 94.5 | 77.0-120 | | | 2.43 | 20 |
| Vinyl acetate | 0.125 | 0.139 | 0.146 | 111 | 117 | 58.0-156 | | | 4.96 | 20 |
| *(S) Toluene-d8* | | | | *97.9* | *95.9* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *111* | *114* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *101* | *102* | *64.0-132* | | | | |

## L937802-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L937802-07 09/26/17 16:13 • (MS) R3252404-1 09/26/17 17:12 • (MSD) R3252404-2 09/26/17 17:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.146 | U | 0.0909 | 0.0881 | 62.3 | 60.3 | 1 | 10.0-160 | | | 3.22 | 36 |
| Benzene | 0.0292 | U | 0.0246 | 0.0201 | 84.1 | 69.0 | 1 | 13.0-146 | | | 19.8 | 27 |
| Bromodichloromethane | 0.0292 | U | 0.0242 | 0.0197 | 82.8 | 67.6 | 1 | 15.0-142 | | | 20.1 | 28 |
| Acrylonitrile | 0.146 | U | 0.0982 | 0.0826 | 67.2 | 56.6 | 1 | 14.0-160 | | | 17.3 | 33 |
| Bromochloromethane | 0.0292 | U | 0.0244 | 0.0204 | 83.5 | 70.0 | 1 | 24.0-146 | | | 17.6 | 27 |
| Bromoform | 0.0292 | U | 0.0222 | 0.0175 | 76.2 | 60.0 | 1 | 10.0-147 | | | 23.8 | 31 |
| Bromobenzene | 0.0292 | U | 0.0199 | 0.0149 | 68.1 | 50.9 | 1 | 10.0-149 | | | 28.8 | 33 |
| Bromomethane | 0.0292 | U | 0.0213 | 0.0170 | 73.0 | 58.2 | 1 | 10.0-160 | | | 22.5 | 32 |
| Carbon disulfide | 0.0292 | 0.000448 | 0.0217 | 0.0179 | 72.9 | 59.8 | 1 | 10.0-141 | | | 19.3 | 30 |
| Carbon tetrachloride | 0.0292 | U | 0.0234 | 0.0193 | 80.2 | 66.2 | 1 | 13.0-140 | | | 19.3 | 30 |
| n-Butylbenzene | 0.0292 | U | 0.0226 | 0.0157 | 77.3 | 53.8 | 1 | 10.0-154 | | | 36.0 | 37 |
| Chlorobenzene | 0.0292 | U | 0.0223 | 0.0175 | 76.4 | 59.8 | 1 | 10.0-149 | | | 24.4 | 31 |
| sec-Butylbenzene | 0.0292 | U | 0.0251 | 0.0186 | 85.9 | 63.8 | 1 | 10.0-151 | | | 29.5 | 36 |
| Chlorodibromomethane | 0.0292 | U | 0.0217 | 0.0176 | 74.2 | 60.2 | 1 | 12.0-147 | | | 20.9 | 29 |
| tert-Butylbenzene | 0.0292 | U | 0.0244 | 0.0187 | 83.6 | 64.2 | 1 | 10.0-152 | | | 26.2 | 35 |
| Chloroethane | 0.0292 | U | 0.0244 | 0.0197 | 83.7 | 67.3 | 1 | 10.0-159 | | | 21.7 | 33 |
| Chloroform | 0.0292 | U | 0.0241 | 0.0201 | 82.6 | 68.7 | 1 | 18.0-148 | | | 18.4 | 28 |
| Chloromethane | 0.0292 | U | 0.0216 | 0.0181 | 74.1 | 62.1 | 1 | 10.0-146 | | | 17.6 | 29 |
| 1,2-Dibromo-3-Chloropropane | 0.0292 | U | 0.0174 | 0.0131 | 59.5 | 45.0 | 1 | 10.0-149 | | | 27.7 | 34 |
| 1,2-Dibromoethane | 0.0292 | U | 0.0222 | 0.0176 | 75.9 | 60.4 | 1 | 14.0-145 | | | 22.8 | 28 |
| 2-Chlorotoluene | 0.0292 | U | 0.0225 | 0.0169 | 77.1 | 57.8 | 1 | 10.0-151 | | | 28.6 | 35 |
| 1,2-Dichlorobenzene | 0.0292 | U | 0.0163 | 0.0113 | 55.8 | 38.8 | 1 | 10.0-153 | | J3 | 36.0 | 34 |
| 4-Chlorotoluene | 0.0292 | U | 0.0206 | 0.0150 | 70.7 | 51.3 | 1 | 10.0-150 | | | 31.8 | 35 |
| 1,3-Dichlorobenzene | 0.0292 | U | 0.0181 | 0.0125 | 61.9 | 42.9 | 1 | 10.0-150 | | J3 | 36.2 | 35 |
| 1,4-Dichlorobenzene | 0.0292 | U | 0.0173 | 0.0118 | 59.2 | 40.3 | 1 | 10.0-148 | | J3 | 38.0 | 34 |
| Dibromomethane | 0.0292 | U | 0.0206 | 0.0165 | 70.6 | 56.5 | 1 | 18.0-144 | | | 22.2 | 27 |
| Dichlorodifluoromethane | 0.0292 | U | 0.0274 | 0.0227 | 93.8 | 77.7 | 1 | 10.0-160 | | | 18.8 | 30 |
| 1,1-Dichloroethane | 0.0292 | U | 0.0256 | 0.0215 | 87.7 | 73.7 | 1 | 19.0-148 | | | 17.3 | 28 |
| 1,2-Dichloroethane | 0.0292 | U | 0.0235 | 0.0188 | 80.3 | 64.6 | 1 | 17.0-147 | | | 21.8 | 27 |
| trans-1,4-Dichloro-2-butene | 0.0292 | U | 0.0148 | 0.0115 | 50.6 | 39.3 | 1 | 10.0-160 | | | 25.1 | 40 |
| 1,1-Dichloroethene | 0.0292 | U | 0.0246 | 0.0205 | 84.2 | 70.1 | 1 | 10.0-150 | | | 18.3 | 31 |
| cis-1,2-Dichloroethene | 0.0292 | U | 0.0234 | 0.0197 | 80.0 | 67.6 | 1 | 16.0-145 | | | 16.8 | 28 |
| trans-1,2-Dichloroethene | 0.0292 | U | 0.0244 | 0.0197 | 83.7 | 67.5 | 1 | 11.0-142 | | | 21.5 | 29 |
| 1,2-Dichloropropane | 0.0292 | U | 0.0247 | 0.0203 | 84.7 | 69.4 | 1 | 17.0-148 | | | 19.9 | 28 |
| cis-1,3-Dichloropropene | 0.0292 | U | 0.0243 | 0.0197 | 83.1 | 67.3 | 1 | 13.0-150 | | | 20.9 | 28 |
| trans-1,3-Dichloropropene | 0.0292 | U | 0.0210 | 0.0166 | 72.1 | 56.8 | 1 | 10.0-152 | | | 23.8 | 29 |
| 1,1-Dichloropropene | 0.0292 | U | 0.0250 | 0.0204 | 85.6 | 69.7 | 1 | 10.0-150 | | | 20.4 | 30 |
| 1,3-Dichloropropane | 0.0292 | U | 0.0226 | 0.0185 | 77.4 | 63.5 | 1 | 16.0-148 | | | 19.6 | 27 |
| Ethylbenzene | 0.0292 | U | 0.0239 | 0.0185 | 81.7 | 63.3 | 1 | 10.0-147 | | | 25.4 | 31 |

## L937802-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L937802-07 09/26/17 16:13 • (MS) R3252404-1 09/26/17 17:12 • (MSD) R3252404-2 09/26/17 17:32

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,2-Dichloropropane | 0.0292 | U | 0.0191 | 0.0157 | 65.6 | 53.8 | 1 | 16.0-143 | | | 19.7 | 30 |
| Di-isopropyl ether | 0.0292 | U | 0.0220 | 0.0181 | 75.3 | 61.9 | 1 | 16.0-149 | | | 19.5 | 28 |
| 2-Hexanone | 0.146 | U | 0.0859 | 0.0721 | 58.8 | 49.4 | 1 | 12.0-158 | | | 17.4 | 30 |
| Hexachloro-1,3-butadiene | 0.0292 | U | 0.0232 | 0.0165 | 79.6 | 56.4 | 1 | 10.0-154 | | | 34.1 | 40 |
| Isopropylbenzene | 0.0292 | U | 0.0247 | 0.0191 | 84.6 | 65.4 | 1 | 10.0-147 | | | 25.7 | 33 |
| 2-Butanone (MEK) | 0.146 | U | 0.0799 | 0.0685 | 54.8 | 46.9 | 1 | 10.0-160 | | | 15.4 | 33 |
| n-Hexane | 0.0292 | 0.000898 | 0.0227 | 0.0198 | 74.8 | 64.6 | 1 | 10.0-140 | | | 14.0 | 34 |
| Iodomethane | 0.146 | U | 0.120 | 0.0970 | 82.0 | 66.5 | 1 | 10.0-157 | | | 20.9 | 34 |
| Methylene Chloride | 0.0292 | U | 0.0216 | 0.0181 | 74.1 | 62.0 | 1 | 16.0-139 | | | 17.8 | 29 |
| 4-Methyl-2-pentanone (MIBK) | 0.146 | U | 0.0971 | 0.0815 | 66.5 | 55.8 | 1 | 12.0-160 | | | 17.5 | 32 |
| Methyl tert-butyl ether | 0.0292 | U | 0.0209 | 0.0168 | 71.6 | 57.4 | 1 | 21.0-145 | | | 22.1 | 29 |
| p-Isopropyltoluene | 0.0292 | U | 0.0252 | 0.0183 | 86.4 | 62.6 | 1 | 10.0-156 | | | 32.0 | 37 |
| Naphthalene | 0.0292 | U | 0.0105 | 0.00599 | 35.8 | 20.5 | 1 | 10.0-153 | | J3 | 54.3 | 36 |
| Styrene | 0.0292 | U | 0.0203 | 0.0148 | 69.4 | 50.6 | 1 | 10.0-155 | | | 31.3 | 34 |
| 1,1,2,2-Tetrachloroethane | 0.0292 | U | 0.0198 | 0.0160 | 67.9 | 54.9 | 1 | 10.0-155 | | | 21.1 | 31 |
| Tetrachloroethene | 0.0292 | U | 0.0273 | 0.0222 | 93.5 | 75.9 | 1 | 10.0-144 | | | 20.8 | 32 |
| n-Propylbenzene | 0.0292 | U | 0.0245 | 0.0185 | 84.0 | 63.3 | 1 | 10.0-151 | | | 28.0 | 34 |
| Toluene | 0.0292 | U | 0.0239 | 0.0194 | 81.8 | 66.3 | 1 | 10.0-144 | | | 20.8 | 28 |
| 1,1,2-Trichlorotrifluoroethane | 0.0292 | U | 0.0236 | 0.0192 | 80.9 | 65.6 | 1 | 10.0-153 | | | 20.9 | 33 |
| 1,1,1,2-Tetrachloroethane | 0.0292 | U | 0.0216 | 0.0171 | 74.1 | 58.7 | 1 | 10.0-147 | | | 23.2 | 30 |
| 1,2,3-Trichlorobenzene | 0.0292 | U | 0.0109 | 0.00631 | 37.2 | 21.6 | 1 | 10.0-153 | | J3 | 53.0 | 40 |
| 1,2,4-Trichlorobenzene | 0.0292 | U | 0.0115 | 0.00657 | 39.3 | 22.5 | 1 | 10.0-156 | | J3 | 54.3 | 40 |
| 1,1,1-Trichloroethane | 0.0292 | U | 0.0237 | 0.0197 | 81.1 | 67.4 | 1 | 18.0-145 | | | 18.4 | 29 |
| 1,1,2-Trichloroethane | 0.0292 | U | 0.0225 | 0.0189 | 77.1 | 64.8 | 1 | 12.0-151 | | | 17.4 | 28 |
| Trichloroethene | 0.0292 | U | 0.0248 | 0.0200 | 85.0 | 68.4 | 1 | 11.0-148 | | | 21.7 | 29 |
| Trichlorofluoromethane | 0.0292 | U | 0.0254 | 0.0207 | 87.1 | 71.0 | 1 | 10.0-157 | | | 20.4 | 34 |
| 1,2,3-Trichloropropane | 0.0292 | U | 0.0207 | 0.0158 | 70.8 | 54.3 | 1 | 10.0-154 | | | 26.5 | 32 |
| Vinyl chloride | 0.0292 | U | 0.0253 | 0.0204 | 86.7 | 69.8 | 1 | 10.0-150 | | | 21.5 | 29 |
| 1,2,3-Trimethylbenzene | 0.0292 | U | 0.0190 | 0.0141 | 65.0 | 48.2 | 1 | 10.0-150 | | | 29.6 | 33 |
| Xylenes, Total | 0.0876 | U | 0.0709 | 0.0543 | 80.9 | 62.0 | 1 | 10.0-150 | | | 26.5 | 31 |
| 1,2,4-Trimethylbenzene | 0.0292 | U | 0.0215 | 0.0158 | 73.8 | 54.2 | 1 | 10.0-151 | | | 30.5 | 34 |
| 1,3,5-Trimethylbenzene | 0.0292 | U | 0.0236 | 0.0178 | 80.7 | 61.1 | 1 | 10.0-150 | | | 27.6 | 33 |
| Vinyl acetate | 0.146 | U | 0.0932 | 0.0715 | 63.9 | 49.0 | 1 | 10.0-160 | | | 26.4 | 40 |
| *(S) Toluene-d8* | | | | | *107* | *106* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *106* | *106* | | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *109* | *109* | | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3251791-2 09/22/17 14:11

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3251791-2 09/22/17 14:11

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | 0.199 | J | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | 0.174 | J | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | 0.223 | J | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *99.1* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3251791-1 09/22/17 13:32

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 125 | 111 | 88.6 | 10.0-160 | |
| Acrylonitrile | 125 | 114 | 91.3 | 60.0-142 | |
| Benzene | 25.0 | 23.8 | 95.2 | 69.0-123 | |
| Bromobenzene | 25.0 | 24.0 | 96.0 | 79.0-120 | |
| Bromodichloromethane | 25.0 | 23.2 | 93.0 | 76.0-120 | |
| Bromochloromethane | 25.0 | 23.4 | 93.7 | 76.0-122 | |
| Bromoform | 25.0 | 25.8 | 103 | 67.0-132 | |
| Bromomethane | 25.0 | 23.0 | 91.8 | 18.0-160 | |
| n-Butylbenzene | 25.0 | 26.0 | 104 | 72.0-126 | |
| sec-Butylbenzene | 25.0 | 25.6 | 102 | 74.0-121 | |
| tert-Butylbenzene | 25.0 | 25.7 | 103 | 75.0-122 | |
| Carbon disulfide | 25.0 | 24.4 | 97.4 | 55.0-127 | |
| Carbon tetrachloride | 25.0 | 25.0 | 100 | 63.0-122 | |
| Chlorobenzene | 25.0 | 24.7 | 98.6 | 79.0-121 | |
| Chlorodibromomethane | 25.0 | 25.4 | 102 | 75.0-125 | |
| Chloroethane | 25.0 | 22.8 | 91.3 | 47.0-152 | |
| Chloroform | 25.0 | 23.7 | 94.7 | 72.0-121 | |
| Chloromethane | 25.0 | 22.6 | 90.5 | 48.0-139 | |
| 2-Chlorotoluene | 25.0 | 25.4 | 102 | 74.0-122 | |
| 4-Chlorotoluene | 25.0 | 25.0 | 99.8 | 79.0-120 | |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 25.3 | 101 | 64.0-127 | |
| 1,2-Dibromoethane | 25.0 | 24.4 | 97.5 | 77.0-123 | |
| Dibromomethane | 25.0 | 23.9 | 95.5 | 78.0-120 | |
| 1,2-Dichlorobenzene | 25.0 | 24.3 | 97.3 | 80.0-120 | |
| 1,3-Dichlorobenzene | 25.0 | 23.9 | 95.6 | 72.0-123 | |
| 1,4-Dichlorobenzene | 25.0 | 24.6 | 98.4 | 77.0-120 | |
| Dichlorodifluoromethane | 25.0 | 22.5 | 90.1 | 49.0-155 | |
| 1,1-Dichloroethane | 25.0 | 23.4 | 93.8 | 70.0-126 | |
| 1,2-Dichloroethane | 25.0 | 22.1 | 88.6 | 67.0-126 | |
| 1,1-Dichloroethene | 25.0 | 24.8 | 99.1 | 64.0-129 | |
| cis-1,2-Dichloroethene | 25.0 | 23.2 | 92.7 | 73.0-120 | |
| trans-1,2-Dichloroethene | 25.0 | 24.3 | 97.2 | 71.0-121 | |
| 1,2-Dichloropropane | 25.0 | 24.1 | 96.4 | 75.0-125 | |
| 1,1-Dichloropropene | 25.0 | 24.4 | 97.7 | 71.0-129 | |
| 1,3-Dichloropropane | 25.0 | 23.8 | 95.0 | 80.0-121 | |
| cis-1,3-Dichloropropene | 25.0 | 24.3 | 97.1 | 79.0-123 | |
| trans-1,3-Dichloropropene | 25.0 | 24.5 | 97.9 | 74.0-127 | |
| trans-1,4-Dichloro-2-butene | 25.0 | 23.9 | 95.7 | 55.0-134 | |
| 2,2-Dichloropropane | 25.0 | 24.0 | 95.9 | 60.0-125 | |
| Di-isopropyl ether | 25.0 | 22.8 | 91.1 | 59.0-133 | |

## Laboratory Control Sample (LCS)

(LCS) R3251791-1 09/22/17 13:32

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 25.4 | 101 | 77.0-120 | |
| Hexachloro-1,3-butadiene | 25.0 | 24.3 | 97.1 | 64.0-131 | |
| 2-Hexanone | 125 | 118 | 94.5 | 58.0-147 | |
| n-Hexane | 25.0 | 22.7 | 90.9 | 56.0-124 | |
| Iodomethane | 125 | 124 | 98.8 | 57.0-140 | |
| Isopropylbenzene | 25.0 | 25.9 | 104 | 75.0-120 | |
| p-Isopropyltoluene | 25.0 | 26.7 | 107 | 74.0-126 | |
| 2-Butanone (MEK) | 125 | 99.3 | 79.4 | 37.0-158 | |
| Methylene Chloride | 25.0 | 23.8 | 95.1 | 66.0-121 | |
| 4-Methyl-2-pentanone (MIBK) | 125 | 120 | 95.7 | 59.0-143 | |
| Methyl tert-butyl ether | 25.0 | 23.3 | 93.3 | 64.0-123 | |
| Naphthalene | 25.0 | 24.6 | 98.6 | 62.0-128 | |
| n-Propylbenzene | 25.0 | 25.6 | 102 | 79.0-120 | |
| Styrene | 25.0 | 25.3 | 101 | 78.0-124 | |
| 1,1,1,2-Tetrachloroethane | 25.0 | 25.1 | 100 | 75.0-122 | |
| 1,1,2,2-Tetrachloroethane | 25.0 | 25.0 | 100 | 71.0-122 | |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 24.9 | 99.6 | 61.0-136 | |
| Tetrachloroethene | 25.0 | 26.0 | 104 | 70.0-127 | |
| Toluene | 25.0 | 24.8 | 99.2 | 77.0-120 | |
| 1,2,3-Trichlorobenzene | 25.0 | 23.4 | 93.4 | 61.0-133 | |
| 1,2,4-Trichlorobenzene | 25.0 | 24.1 | 96.3 | 69.0-129 | |
| 1,1,1-Trichloroethane | 25.0 | 24.6 | 98.5 | 68.0-122 | |
| 1,1,2-Trichloroethane | 25.0 | 23.5 | 93.9 | 78.0-120 | |
| Trichloroethene | 25.0 | 26.1 | 104 | 78.0-120 | |
| Trichlorofluoromethane | 25.0 | 25.3 | 101 | 56.0-137 | |
| 1,2,3-Trichloropropane | 25.0 | 25.3 | 101 | 72.0-124 | |
| 1,2,4-Trimethylbenzene | 25.0 | 25.3 | 101 | 75.0-120 | |
| 1,2,3-Trimethylbenzene | 25.0 | 25.5 | 102 | 75.0-120 | |
| 1,3,5-Trimethylbenzene | 25.0 | 26.5 | 106 | 75.0-120 | |
| Vinyl acetate | 125 | 111 | 89.0 | 46.0-160 | |
| Vinyl chloride | 25.0 | 23.5 | 93.9 | 64.0-133 | |
| Xylenes, Total | 75.0 | 76.4 | 102 | 77.0-120 | |
| *(S) Toluene-d8* | | | *99.8* | *80.0-120* | |
| *(S) Dibromofluoromethane* | | | *96.9* | *76.0-123* | |
| *(S) 4-Bromofluorobenzene* | | | *104* | *80.0-120* | |

## L937868-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L937868-02 09/22/17 15:48 • (MS) R3251791-3 09/22/17 21:57 • (MSD) R3251791-4 09/22/17 22:16

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | ND | 106 | 131 | 70.4 | 90.4 | 1 | 10.0-139 | | | 21.0 | 25 |
| Acrylonitrile | 125 | ND | 86.8 | 112 | 69.5 | 89.3 | 1 | 46.0-159 | | J3 | 25.0 | 23 |
| Benzene | 25.0 | ND | 17.7 | 23.3 | 70.7 | 93.4 | 1 | 34.0-147 | | J3 | 27.7 | 20 |
| Bromobenzene | 25.0 | ND | 17.9 | 23.4 | 71.7 | 93.5 | 1 | 51.0-137 | | J3 | 26.4 | 20 |
| Bromodichloromethane | 25.0 | ND | 17.7 | 24.7 | 70.8 | 98.6 | 1 | 52.0-135 | | J3 | 32.9 | 20 |
| Bromochloromethane | 25.0 | ND | 17.5 | 24.5 | 70.0 | 97.9 | 1 | 53.0-138 | | J3 | 33.2 | 20 |
| Bromoform | 25.0 | ND | 17.7 | 23.8 | 70.9 | 95.1 | 1 | 50.0-146 | | J3 | 29.2 | 20 |
| Bromomethane | 25.0 | ND | 19.3 | 25.0 | 77.2 | 99.9 | 1 | 10.0-160 | | J3 | 25.7 | 23 |
| n-Butylbenzene | 25.0 | ND | 20.1 | 25.6 | 80.5 | 102 | 1 | 50.0-144 | | J3 | 23.9 | 20 |
| sec-Butylbenzene | 25.0 | ND | 19.2 | 24.7 | 76.8 | 99.0 | 1 | 48.0-143 | | J3 | 25.3 | 20 |
| tert-Butylbenzene | 25.0 | ND | 19.2 | 24.9 | 76.8 | 99.6 | 1 | 50.0-142 | | J3 | 25.8 | 20 |
| Carbon disulfide | 25.0 | ND | 17.5 | 22.6 | 70.2 | 90.5 | 1 | 10.0-147 | | J3 | 25.3 | 20 |
| Carbon tetrachloride | 25.0 | ND | 19.8 | 24.4 | 79.3 | 97.7 | 1 | 41.0-138 | | J3 | 20.7 | 20 |
| Chlorobenzene | 25.0 | ND | 18.8 | 24.5 | 75.1 | 98.2 | 1 | 52.0-141 | | J3 | 26.6 | 20 |
| Chlorodibromomethane | 25.0 | ND | 18.7 | 25.6 | 74.8 | 102 | 1 | 54.0-142 | | J3 | 31.2 | 20 |
| Chloroethane | 25.0 | ND | 20.2 | 25.5 | 80.6 | 102 | 1 | 23.0-160 | | J3 | 23.5 | 20 |
| Chloroform | 25.0 | ND | 18.6 | 24.8 | 74.4 | 99.4 | 1 | 50.0-139 | | J3 | 28.7 | 20 |
| Chloromethane | 25.0 | ND | 16.5 | 21.6 | 66.1 | 86.6 | 1 | 14.0-151 | | J3 | 26.8 | 20 |
| 2-Chlorotoluene | 25.0 | ND | 18.4 | 24.6 | 73.5 | 98.2 | 1 | 48.0-142 | | J3 | 28.7 | 20 |
| 4-Chlorotoluene | 25.0 | ND | 18.3 | 23.8 | 73.3 | 95.4 | 1 | 52.0-139 | | J3 | 26.2 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | ND | 18.8 | 25.2 | 75.1 | 101 | 1 | 49.0-144 | | J3 | 29.2 | 24 |
| 1,2-Dibromoethane | 25.0 | ND | 18.6 | 24.8 | 74.4 | 99.3 | 1 | 54.0-140 | | J3 | 28.7 | 20 |
| Dibromomethane | 25.0 | ND | 18.0 | 25.0 | 72.0 | 100 | 1 | 53.0-138 | | J3 | 32.5 | 20 |
| 1,2-Dichlorobenzene | 25.0 | ND | 19.0 | 25.3 | 75.8 | 101 | 1 | 56.0-139 | | J3 | 28.7 | 20 |
| 1,3-Dichlorobenzene | 25.0 | ND | 17.9 | 23.4 | 71.4 | 93.8 | 1 | 50.0-141 | | J3 | 27.1 | 20 |
| 1,4-Dichlorobenzene | 25.0 | ND | 19.1 | 24.9 | 76.2 | 99.4 | 1 | 53.0-136 | | J3 | 26.4 | 20 |
| Dichlorodifluoromethane | 25.0 | ND | 19.7 | 24.1 | 78.9 | 96.6 | 1 | 20.0-160 | | | 20.1 | 21 |
| 1,1-Dichloroethane | 25.0 | ND | 18.0 | 24.2 | 70.8 | 95.7 | 1 | 47.0-143 | | J3 | 29.6 | 20 |
| 1,2-Dichloroethane | 25.0 | ND | 17.2 | 22.7 | 68.9 | 91.0 | 1 | 47.0-141 | | J3 | 27.7 | 20 |
| 1,1-Dichloroethene | 25.0 | ND | 19.0 | 25.0 | 76.0 | 100 | 1 | 31.0-148 | | J3 | 27.4 | 20 |
| cis-1,2-Dichloroethene | 25.0 | ND | 18.2 | 24.2 | 72.8 | 96.7 | 1 | 43.0-142 | | J3 | 28.2 | 20 |
| trans-1,2-Dichloroethene | 25.0 | ND | 18.1 | 24.0 | 72.2 | 95.8 | 1 | 36.0-141 | | J3 | 28.1 | 20 |
| 1,2-Dichloropropane | 25.0 | ND | 18.0 | 23.9 | 71.9 | 95.7 | 1 | 51.0-141 | | J3 | 28.3 | 20 |
| 1,1-Dichloropropene | 25.0 | ND | 20.0 | 25.2 | 80.0 | 101 | 1 | 42.0-146 | | J3 | 23.1 | 20 |
| 1,3-Dichloropropane | 25.0 | ND | 18.4 | 24.4 | 73.4 | 97.6 | 1 | 58.0-139 | | J3 | 28.3 | 20 |
| cis-1,3-Dichloropropene | 25.0 | ND | 18.3 | 24.0 | 73.3 | 96.2 | 1 | 53.0-139 | | J3 | 27.0 | 20 |
| trans-1,3-Dichloropropene | 25.0 | ND | 18.2 | 24.0 | 72.9 | 96.0 | 1 | 51.0-143 | | J3 | 27.4 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | ND | 14.0 | 19.1 | 55.8 | 76.5 | 1 | 40.0-150 | | J3 | 31.3 | 21 |
| 2,2-Dichloropropane | 25.0 | ND | 18.2 | 23.9 | 72.8 | 95.6 | 1 | 43.0-139 | | J3 | 27.0 | 20 |
| Di-isopropyl ether | 25.0 | ND | 16.3 | 22.2 | 65.0 | 89.0 | 1 | 44.0-144 | | J3 | 31.1 | 20 |

## L937868-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L937868-02 09/22/17 15:48 • (MS) R3251791-3 09/22/17 21:57 • (MSD) R3251791-4 09/22/17 22:16

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | ND | 20.4 | 26.4 | 78.9 | 103 | 1 | 42.0-147 | | J3 | 25.7 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | ND | 18.5 | 24.4 | 73.9 | 97.6 | 1 | 44.0-146 | | J3 | 27.7 | 21 |
| 2-Hexanone | 125 | ND | 94.3 | 125 | 75.4 | 99.9 | 1 | 36.0-145 | | J3 | 28.0 | 23 |
| n-Hexane | 25.0 | ND | 17.4 | 21.3 | 69.6 | 85.3 | 1 | 13.0-145 | | J3 | 20.2 | 20 |
| Iodomethane | 125 | ND | 91.5 | 126 | 73.2 | 101 | 1 | 30.0-151 | | J3 | 31.9 | 20 |
| Isopropylbenzene | 25.0 | ND | 19.3 | 24.6 | 77.3 | 98.4 | 1 | 48.0-141 | | J3 | 24.0 | 20 |
| p-Isopropyltoluene | 25.0 | ND | 19.6 | 25.6 | 78.3 | 102 | 1 | 49.0-146 | | J3 | 26.7 | 20 |
| 2-Butanone (MEK) | 125 | ND | 83.9 | 107 | 67.1 | 85.4 | 1 | 12.0-149 | | | 24.0 | 24 |
| Methylene Chloride | 25.0 | ND | 17.9 | 23.8 | 71.7 | 95.4 | 1 | 42.0-135 | | J3 | 28.3 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | ND | 96.2 | 130 | 77.0 | 104 | 1 | 44.0-160 | | J3 | 30.0 | 22 |
| Methyl tert-butyl ether | 25.0 | ND | 17.0 | 23.6 | 67.9 | 94.4 | 1 | 42.0-142 | | J3 | 32.7 | 20 |
| Naphthalene | 25.0 | 15.4 | 35.3 | 44.5 | 79.5 | 116 | 1 | 42.0-146 | | | 23.0 | 24 |
| n-Propylbenzene | 25.0 | ND | 18.7 | 24.1 | 74.8 | 96.5 | 1 | 47.0-144 | | J3 | 25.3 | 20 |
| Styrene | 25.0 | ND | 18.5 | 24.4 | 74.2 | 97.5 | 1 | 47.0-147 | | J3 | 27.1 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | ND | 19.8 | 25.8 | 79.3 | 103 | 1 | 52.0-140 | | J3 | 26.4 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | ND | 17.0 | 23.6 | 68.1 | 94.2 | 1 | 46.0-149 | | J3 | 32.2 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | ND | 21.3 | 25.3 | 85.2 | 101 | 1 | 40.0-151 | | | 17.0 | 21 |
| Tetrachloroethene | 25.0 | ND | 19.8 | 24.7 | 79.3 | 98.9 | 1 | 38.0-147 | | J3 | 21.9 | 20 |
| Toluene | 25.0 | ND | 19.8 | 25.2 | 76.3 | 97.8 | 1 | 42.0-141 | | J3 | 23.9 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | ND | 17.7 | 24.8 | 70.6 | 99.4 | 1 | 45.0-145 | | J3 | 33.8 | 22 |
| 1,2,4-Trichlorobenzene | 25.0 | ND | 18.4 | 25.8 | 73.7 | 103 | 1 | 49.0-147 | | J3 | 33.2 | 21 |
| 1,1,1-Trichloroethane | 25.0 | ND | 19.0 | 25.3 | 76.1 | 101 | 1 | 46.0-140 | | J3 | 28.4 | 20 |
| 1,1,2-Trichloroethane | 25.0 | ND | 18.1 | 23.8 | 72.4 | 95.0 | 1 | 54.0-139 | | J3 | 27.1 | 20 |
| Trichloroethene | 25.0 | ND | 19.9 | 26.1 | 79.5 | 104 | 1 | 32.0-156 | | J3 | 27.2 | 20 |
| Trichlorofluoromethane | 25.0 | ND | 23.2 | 31.3 | 82.8 | 115 | 1 | 32.0-152 | | J3 | 29.9 | 20 |
| 1,2,3-Trichloropropane | 25.0 | ND | 18.1 | 24.6 | 72.6 | 98.4 | 1 | 54.0-143 | | J3 | 30.2 | 21 |
| 1,2,4-Trimethylbenzene | 25.0 | ND | 19.1 | 25.3 | 74.8 | 99.6 | 1 | 41.0-146 | | J3 | 27.9 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | ND | 20.2 | 27.1 | 79.5 | 107 | 1 | 48.0-138 | | J3 | 29.5 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | ND | 19.0 | 25.6 | 76.2 | 103 | 1 | 44.0-143 | | J3 | 29.5 | 20 |
| Vinyl acetate | 125 | ND | 81.6 | 109 | 65.2 | 86.9 | 1 | 30.0-160 | | J3 | 28.5 | 20 |
| Vinyl chloride | 25.0 | ND | 19.2 | 23.4 | 76.7 | 93.8 | 1 | 24.0-153 | | J3 | 20.1 | 20 |
| Xylenes, Total | 75.0 | ND | 60.8 | 78.1 | 81.1 | 104 | 1 | 41.0-148 | | J3 | 24.9 | 20 |
| *(S) Toluene-d8* | | | | | *103* | *102* | | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | | *97.3* | *97.5* | | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *98.3* | *97.4* | | *80.0-120* | | | | |

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J3 | The associated batch QC was outside the established quality control range for precision. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

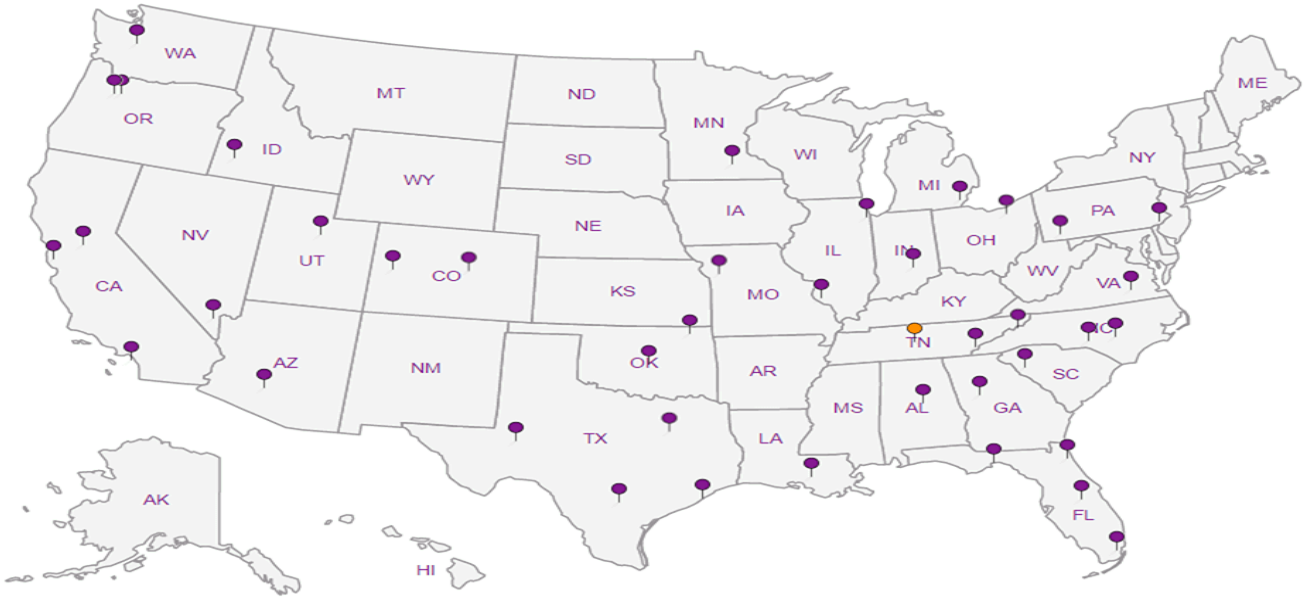
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc. -WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: Seattle, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

L# L937802

Ta E013

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature): [signature]

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y X

Acctnum: PESENVSWA
Template: T126586
Prelogin: P613274
TSR:
PB:
Shipped Via:

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40mlAmb HCl | TS 4ozClr-NoPres /2+2ozClr-NoPres | V8260C 40ml/NaHSO4/Syr/MeOH | V8260C 40mlAmb-HCl | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-141-15 | GRAB | SS | 15 | 9/18/17 | 0905 | 5 | | | X | X | | | -01 |
| MW-141-35 | ↓ | ↓ | 35 | ↓ | 1015 | 5 | | | X | X | | | 02 |
| MW-141-46 | ↓ | ↓ | 46 | ↓ | 1035 | 5 | | | X | X | | | 03 |
| MW-141-56 | ↓ | ↓ | 56 | ↓ | 1125 | 5 | | | X | X | | | 04 |
| MW-141-65 | ↓ | ↓ | 65 | ↓ | 1150 | 5 | | | X | X | | | 05 |
| MW-141-75 | ↓ | ↓ | 75 | ↓ | 1420 | 5 | | | X | X | | | 06 |
| MW-141-85 | ↓ | ↓ | 85 | ↓ | 1505 | 5 | | | X | X | | | 07 |
| MW-141-95 | ↓ | ↓ | 95 | ↓ | 1605 | 5 | | | X | X | | | 08 |
| MW-141-105 | ↓ | ↓ | 105 | 9/19/17 | 0845 | 5 | | | X | X | | | 09 |
| MW-141-105-N | ↓ | GW | 105 | ↓ | 0900 | 3 | | | | | X | | 10 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 7474 09270946

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | |
|---|---|---|---|---|---|
| [signature] | 9/19/17 | 1030 | | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 0.8 °C Bottles Received: 48 | If preservation required by Login: Date/Time |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) [signature] | Date: 9/20/17 Time: 0845 | Hold: Condition: NCF / OK |

MW 11

# MEMORANDUM

**TO:** Project File **DATE:** October 16, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** September 18-19, 2017 – Soil and Groundwater Samples

**LAB:** ESC Lab ID L937802

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Nine (9) soil samples and one (1) groundwater sample were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 18-19, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C; and
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L937802. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L937802 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on September 18-19, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 0.8 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, 2-hexanone, and 2-butanone (MEK) associated with analytical batch WG1023207 (analyzed on September 21, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acrylonitrile, 2,2-dichloropropane, 4-methyl-2-pentanone (MIBK), and methyl tert-butyl ether associated with analytical batch WG1023207 (analyzed on September 26, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at or above the reported detection limits (RDLs) with the following exception:

- Batch WG1023529 (waters): Hexachloro-1,3-butadiene, naphthalene, and 1,2,3-trichlorobenzene were detected above the method detection limit (MDL) and below the RDL in the method blank. These compounds were not detected in the associated sample and no action is required.

*Total Solids by SM 2540 G 2011:*
Laboratory method blank was included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was not collected.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Field duplicate samples were not collected.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on a non-client sample and on client sample MW-141-65. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS and LCS/LCSDs were analyzed by USEPA Method 8260C method. The LCS and LCS/LCSDs %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters with the following exceptions:

- LCSD (Batch WG1023207 for soils) RPDs for acetone and 2-butanone (MEK) exceed laboratory RPD criteria and are qualified (J3) by the laboratory. No action is taken since the spike recoveries are both within criteria.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed on client sample MW-141-85 and a non-client sample within the analytical batches. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for soils and waters with the following exceptions:

- MSD (Batch WG1023207 for soils) RPDs for 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, naphthalene, 1,2,3-trichlorobenzene, and 1,2,4-trichlorobenzene exceed laboratory RPD criteria and are qualified (J3) by the laboratory. No action is taken since the spike recoveries are within but recovered wide. Refer to LCS/LCSD data for more information.
- MSD (Batch WG1023529 for waters) RPDs for multiple compounds exceed laboratory criteria and are qualified (J3) by the laboratory. No action is taken since the spike was performed on a non-client sample within the analytical batch and LCS/LCSD results are acceptable. Refer to LCS data for more information.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.6 | | 1 | 09/25/2017 12:05 | WG1023602 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.382 J | J0 J3 | 0.0113 | 0.0564 | 1 | 09/21/2017 20:18 | WG1023207 |
| Acrylonitrile | U | | 0.00202 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Benzene | U | | 0.000305 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Bromobenzene | U | | 0.000320 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Bromodichloromethane | U | | 0.000287 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Bromochloromethane | U | | 0.000440 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| Bromoform | U | | 0.000478 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Bromomethane | U | | 0.00151 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| n-Butylbenzene | U | | 0.000291 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| sec-Butylbenzene | U | | 0.000227 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| tert-Butylbenzene | U | | 0.000232 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Carbon disulfide | U | | 0.000249 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Carbon tetrachloride | U | | 0.000370 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Chlorobenzene | U | | 0.000239 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Chlorodibromomethane | U | | 0.000421 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Chloroethane | U | | 0.00107 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| Chloroform | U | | 0.000258 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| Chloromethane | U | | 0.000423 | 0.00282 | 1 | 09/21/2017 20:18 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000340 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000271 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000387 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Dibromomethane | U | | 0.000431 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000344 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000270 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000255 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000804 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000224 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000299 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000342 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| cis-1,2-Dichloroethene | 0.00128 | | 0.000265 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000298 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000404 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000358 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000234 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000296 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000301 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000878 | 0.00282 | 1 | 09/21/2017 20:18 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000315 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Di-isopropyl ether | U | | 0.000280 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Ethylbenzene | U | | 0.000335 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000386 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 2-Hexanone | U UJ | J0 | 0.00155 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |
| n-Hexane | U | | 0.000327 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Iodomethane | U | | 0.00285 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Isopropylbenzene | U | | 0.000274 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000230 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 2-Butanone (MEK) | 0.179 J | J0 J3 | 0.00528 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Methylene Chloride | U | | 0.00113 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00212 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000239 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Naphthalene | U | | 0.00113 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| n-Propylbenzene | U | | 0.000232 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Styrene | U | | 0.000264 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000298 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000412 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000412 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Tetrachloroethene | U | | 0.000311 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Toluene | U | | 0.000490 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000345 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000438 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000323 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000312 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Trichloroethene | U | | 0.000315 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000431 | 0.00564 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000836 | 0.00282 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000238 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000324 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000300 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Vinyl acetate | U | | 0.00270 | 0.0113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Vinyl chloride | 0.000388 J | J | 0.000328 | 0.00113 | 1 | 09/21/2017 20:18 | WG1023207 |
| Xylenes, Total | U | | 0.000787 | 0.00338 | 1 | 09/21/2017 20:18 | WG1023207 |
| *(S) Toluene-d8* | *96.0* | | | *80.0-120* | | *09/21/2017 20:18* | WG1023207 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/21/2017 20:18* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/21/2017 20:18* | WG1023207 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.2 | | 1 | 09/25/2017 12:05 | WG1023602 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0116 | 0.0580 | 1 | 09/21/2017 20:36 | WG1023207 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Bromochloromethane | U | | 0.000452 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| Bromoform | U | | 0.000492 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Bromomethane | U | | 0.00155 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Carbon disulfide | 0.000351 J | J | 0.000256 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Chloroethane | U | | 0.00110 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| Chloroform | U | | 0.000266 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| Chloromethane | U | | 0.000435 | 0.00290 | 1 | 09/21/2017 20:36 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000398 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Dibromomethane | U | | 0.000443 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000827 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000352 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| cis-1,2-Dichloroethene | 0.000473 J | J | 0.000273 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000306 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000415 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000903 | 0.00290 | 1 | 09/21/2017 20:36 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 2-Hexanone | U UJ | J0 | 0.00159 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |
| n-Hexane | 0.000542 J | J | 0.000336 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 2-Butanone (MEK) | U UJ | J0 J3 | 0.00543 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Methylene Chloride | U | | 0.00116 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Naphthalene | U | | 0.00116 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000423 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000423 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Tetrachloroethene | U | | 0.000320 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Toluene | U | | 0.000504 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000450 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Trichloroethene | U | | 0.000324 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000443 | 0.00580 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000860 | 0.00290 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Vinyl chloride | U | | 0.000338 | 0.00116 | 1 | 09/21/2017 20:36 | WG1023207 |
| Xylenes, Total | U | | 0.000810 | 0.00348 | 1 | 09/21/2017 20:36 | WG1023207 |
| *(S) Toluene-d8* | *94.0* | | | *80.0-120* | | *09/21/2017 20:36* | WG1023207 |
| *(S) Dibromofluoromethane* | *119* | | | *74.0-131* | | *09/21/2017 20:36* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *64.0-132* | | *09/21/2017 20:36* | WG1023207 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.5 | | 1 | 09/25/2017 12:05 | WG1023602 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0198 J | J J0 J3 | 0.0109 | 0.0547 | 1 | 09/21/2017 20:53 | WG1023207 |
| Acrylonitrile | U | | 0.00196 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Benzene | U | | 0.000295 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Bromobenzene | U | | 0.000311 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Bromodichloromethane | U | | 0.000278 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Bromochloromethane | U | | 0.000426 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| Bromoform | U | | 0.000464 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Bromomethane | U | | 0.00147 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| n-Butylbenzene | U | | 0.000282 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| sec-Butylbenzene | U | | 0.000220 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| tert-Butylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Carbon disulfide | 0.00126 | | 0.000242 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Carbon tetrachloride | U | | 0.000359 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Chlorobenzene | U | | 0.000232 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Chlorodibromomethane | U | | 0.000408 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Chloroethane | U | | 0.00103 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| Chloroform | U | | 0.000250 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| Chloromethane | U | | 0.000410 | 0.00273 | 1 | 09/21/2017 20:53 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000329 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000262 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00115 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000375 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Dibromomethane | U | | 0.000418 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000333 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000261 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000247 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000780 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000218 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000290 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000331 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| cis-1,2-Dichloroethene | 0.00329 | | 0.000257 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000289 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000391 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000347 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000226 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000286 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000292 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000851 | 0.00273 | 1 | 09/21/2017 20:53 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000305 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Di-isopropyl ether | U | | 0.000271 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Ethylbenzene | U | | 0.000325 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000374 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 2-Hexanone | U UJ | J0 | 0.00150 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |
| n-Hexane | 0.00427 J | J | 0.000317 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Iodomethane | U | | 0.00277 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Isopropylbenzene | U | | 0.000266 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000223 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 2-Butanone (MEK) | U | UJ J0 J3 | 0.00512 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Methylene Chloride | U | | 0.00109 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00206 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000232 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Naphthalene | U | | 0.00109 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| n-Propylbenzene | U | | 0.000225 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Styrene | U | | 0.000256 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000289 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000399 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000399 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Tetrachloroethene | 0.000357 J | J | 0.000302 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Toluene | U | | 0.000475 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000335 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000424 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000313 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000303 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Trichloroethene | 0.000424 J | J | 0.000305 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000418 | 0.00547 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000810 | 0.00273 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000231 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000314 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000291 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Vinyl acetate | U | | 0.00261 | 0.0109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Vinyl chloride | 0.00194 | | 0.000318 | 0.00109 | 1 | 09/21/2017 20:53 | WG1023207 |
| Xylenes, Total | U | | 0.000763 | 0.00328 | 1 | 09/21/2017 20:53 | WG1023207 |
| *(S) Toluene-d8* | *93.8* | | | *80.0-120* | | *09/21/2017 20:53* | WG1023207 |
| *(S) Dibromofluoromethane* | *116* | | | *74.0-131* | | *09/21/2017 20:53* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/21/2017 20:53* | WG1023207 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.0 | | 1 | 09/25/2017 12:05 | WG1023602 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0106 | 0.0532 | 1 | 09/21/2017 21:11 | WG1023207 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Benzene | U | | 0.000287 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Bromobenzene | U | | 0.000302 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Bromodichloromethane | U | | 0.000270 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Bromochloromethane | U | | 0.000415 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| Bromoform | U | | 0.000451 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Bromomethane | U | | 0.00143 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| n-Butylbenzene | U | | 0.000274 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| sec-Butylbenzene | U | | 0.000214 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| tert-Butylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Carbon disulfide | 0.000836 J | J | 0.000235 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Carbon tetrachloride | U | | 0.000349 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Chlorobenzene | U | | 0.000226 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Chlorodibromomethane | U | | 0.000397 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Chloroethane | U | | 0.00101 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| Chloroform | U | | 0.000244 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| Chloromethane | U | | 0.000399 | 0.00266 | 1 | 09/21/2017 21:11 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000320 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000365 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Dibromomethane | U | | 0.000406 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000324 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000254 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000240 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000758 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000282 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000322 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| cis-1,2-Dichloroethene | 0.000474 J | J | 0.000250 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000281 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000381 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000337 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000284 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000828 | 0.00266 | 1 | 09/21/2017 21:11 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Di-isopropyl ether | U | | 0.000264 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Ethylbenzene | U | | 0.000316 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000364 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 2-Hexanone | U UJ | J0 | 0.00146 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |
| n-Hexane | 0.00226 J | J | 0.000308 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Iodomethane | U | | 0.00269 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Isopropylbenzene | U | | 0.000258 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 2-Butanone (MEK) | U UJ | J0 J3 | 0.00498 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Methylene Chloride | U | | 0.00106 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Naphthalene | U | | 0.00106 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| n-Propylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Styrene | U | | 0.000249 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000388 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000388 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Tetrachloroethene | U | | 0.000294 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Toluene | U | | 0.000462 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000413 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000304 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Trichloroethene | U | | 0.000297 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000406 | 0.00532 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000788 | 0.00266 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000224 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000305 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000283 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Vinyl acetate | U | | 0.00254 | 0.0106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Vinyl chloride | U | | 0.000310 | 0.00106 | 1 | 09/21/2017 21:11 | WG1023207 |
| Xylenes, Total | U | | 0.000742 | 0.00319 | 1 | 09/21/2017 21:11 | WG1023207 |
| *(S) Toluene-d8* | *92.9* | | | *80.0-120* | | *09/21/2017 21:11* | WG1023207 |
| *(S) Dibromofluoromethane* | *118* | | | *74.0-131* | | *09/21/2017 21:11* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *09/21/2017 21:11* | WG1023207 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 95.1 | | 1 | 09/25/2017 12:28 | WG1023603 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0110 J | J J0 J3 | 0.0105 | 0.0526 | 1 | 09/21/2017 21:28 | WG1023207 |
| Acrylonitrile | U | | 0.00188 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Benzene | U | | 0.000284 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Bromobenzene | U | | 0.000299 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Bromodichloromethane | U | | 0.000267 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Bromochloromethane | U | | 0.000410 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| Bromoform | U | | 0.000446 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Bromomethane | U | | 0.00141 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| n-Butylbenzene | U | | 0.000271 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| sec-Butylbenzene | U | | 0.000211 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| tert-Butylbenzene | U | | 0.000217 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Carbon disulfide | 0.000894 J | J | 0.000232 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Carbon tetrachloride | U | | 0.000345 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Chlorobenzene | U | | 0.000223 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Chlorodibromomethane | U | | 0.000392 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Chloroethane | U | | 0.000995 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| Chloroform | U | | 0.000241 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| Chloromethane | U | | 0.000394 | 0.00263 | 1 | 09/21/2017 21:28 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000317 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000252 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00110 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000361 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Dibromomethane | U | | 0.000402 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000321 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000251 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000238 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000750 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000209 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000279 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000319 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| cis-1,2-Dichloroethene | U | | 0.000247 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000278 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000377 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000333 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000218 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000276 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000281 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000818 | 0.00263 | 1 | 09/21/2017 21:28 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000293 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Di-isopropyl ether | U | | 0.000261 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Ethylbenzene | U | | 0.000312 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000360 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 2-Hexanone | U UJ | J0 | 0.00144 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |
| n-Hexane | 0.00497 J | J | 0.000305 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Iodomethane | U | | 0.00266 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Isopropylbenzene | U | | 0.000256 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000215 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 2-Butanone (MEK) | U UJ | J0 J3 | 0.00492 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Methylene Chloride | U | | 0.00105 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00198 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000223 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Naphthalene | U | | 0.00105 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| n-Propylbenzene | U | | 0.000217 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Styrene | U | | 0.000246 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000278 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000384 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000384 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Tetrachloroethene | U | | 0.000290 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Toluene | U | | 0.000457 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000322 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000408 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000301 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000291 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Trichloroethene | U | | 0.000293 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000402 | 0.00526 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000779 | 0.00263 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000222 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000302 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000280 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Vinyl acetate | U | | 0.00251 | 0.0105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Vinyl chloride | U | | 0.000306 | 0.00105 | 1 | 09/21/2017 21:28 | WG1023207 |
| Xylenes, Total | U | | 0.000734 | 0.00316 | 1 | 09/21/2017 21:28 | WG1023207 |
| *(S) Toluene-d8* | *93.4* | | | *80.0-120* | | *09/21/2017 21:28* | WG1023207 |
| *(S) Dibromofluoromethane* | *116* | | | *74.0-131* | | *09/21/2017 21:28* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *09/21/2017 21:28* | WG1023207 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.8 | | 1 | 09/25/2017 12:28 | WG1023603 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0160 J | J J0 J3 | 0.0107 | 0.0533 | 1 | 09/21/2017 21:45 | WG1023207 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Benzene | 0.000480 J | J | 0.000288 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Bromobenzene | U | | 0.000303 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Bromodichloromethane | U | | 0.000271 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Bromochloromethane | U | | 0.000416 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| Bromoform | U | | 0.000452 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Bromomethane | U | | 0.00143 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| n-Butylbenzene | U | | 0.000275 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| sec-Butylbenzene | U | | 0.000214 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Carbon disulfide | 0.00357 | | 0.000236 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Carbon tetrachloride | U | | 0.000350 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Chlorobenzene | U | | 0.000226 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Chlorodibromomethane | U | | 0.000398 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Chloroethane | U | | 0.00101 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| Chloroform | U | | 0.000244 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| Chloromethane | U | | 0.000400 | 0.00266 | 1 | 09/21/2017 21:45 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000321 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000256 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000366 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Dibromomethane | U | | 0.000407 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000255 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000760 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000282 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000323 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| cis-1,2-Dichloroethene | U | | 0.000251 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000281 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000382 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000338 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000285 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000829 | 0.00266 | 1 | 09/21/2017 21:45 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Di-isopropyl ether | U | | 0.000264 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Ethylbenzene | U | | 0.000317 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000365 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 2-Hexanone | U UJ | J0 | 0.00146 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |
| n-Hexane | 0.00845 J | J | 0.000309 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Iodomethane | U | | 0.00270 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Isopropylbenzene | U | | 0.000259 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 2-Butanone (MEK) | U UJ | J0 J3 | 0.00499 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Methylene Chloride | U | | 0.00107 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Naphthalene | U | | 0.00107 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Styrene | U | | 0.000249 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000389 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000389 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Tetrachloroethene | U | | 0.000294 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Toluene | U | | 0.000463 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000414 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000305 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Trichloroethene | U | | 0.000297 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000407 | 0.00533 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000790 | 0.00266 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000306 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000284 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Vinyl acetate | U | | 0.00255 | 0.0107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Vinyl chloride | U | | 0.000310 | 0.00107 | 1 | 09/21/2017 21:45 | WG1023207 |
| Xylenes, Total | U | | 0.000744 | 0.00320 | 1 | 09/21/2017 21:45 | WG1023207 |
| *(S) Toluene-d8* | *91.7* | | | *80.0-120* | | *09/21/2017 21:45* | WG1023207 |
| *(S) Dibromofluoromethane* | *114* | | | *74.0-131* | | *09/21/2017 21:45* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/21/2017 21:45* | WG1023207 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.6 | | 1 | 09/25/2017 12:28 | WG1023603 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | | |
| Acetone | U | J3 | 0.0117 | 0.0584 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Acrylonitrile | U UJ | J0 | 0.00209 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Benzene | U | | 0.000315 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Bromobenzene | U | | 0.000332 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Bromodichloromethane | U | | 0.000297 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Bromochloromethane | U | | 0.000455 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Bromoform | U | | 0.000495 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Bromomethane | U | | 0.00156 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 | |
| n-Butylbenzene | U | | 0.000301 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| sec-Butylbenzene | U | | 0.000235 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| tert-Butylbenzene | U | | 0.000241 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Carbon disulfide | 0.000448 J | J | 0.000258 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Carbon tetrachloride | U | | 0.000383 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Chlorobenzene | U | | 0.000248 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Chlorodibromomethane | U | | 0.000436 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Chloroethane | U | | 0.00110 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Chloroform | U | | 0.000267 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Chloromethane | U | | 0.000438 | 0.00292 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 2-Chlorotoluene | U | | 0.000352 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 4-Chlorotoluene | U | | 0.000280 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00123 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 1,2-Dibromoethane | U | | 0.000401 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Dibromomethane | U | | 0.000446 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 1,2-Dichlorobenzene | U | J3 | 0.000356 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 1,3-Dichlorobenzene | U | J3 | 0.000279 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 1,4-Dichlorobenzene | U | J3 | 0.000264 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Dichlorodifluoromethane | U | | 0.000833 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 1,1-Dichloroethane | U | | 0.000232 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 1,2-Dichloroethane | U | | 0.000309 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 1,1-Dichloroethene | U | | 0.000354 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| cis-1,2-Dichloroethene | U | | 0.000274 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| trans-1,2-Dichloroethene | U | | 0.000308 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 1,2-Dichloropropane | U | | 0.000418 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 1,1-Dichloropropene | U | | 0.000370 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 1,3-Dichloropropane | U | | 0.000242 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| cis-1,3-Dichloropropene | U | | 0.000306 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| trans-1,3-Dichloropropene | U | | 0.000312 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| trans-1,4-Dichloro-2-butene | U | | 0.000909 | 0.00292 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 2,2-Dichloropropane | U UJ | J0 | 0.000326 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Di-isopropyl ether | U | | 0.000290 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Ethylbenzene | U | | 0.000347 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Hexachloro-1,3-butadiene | U | | 0.000399 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 2-Hexanone | U | | 0.00160 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| n-Hexane | 0.000898 J | J | 0.000339 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Iodomethane | U | | 0.00295 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Isopropylbenzene | U | | 0.000284 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| p-Isopropyltoluene | U | | 0.000238 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 2-Butanone (MEK) | U | J3 | 0.00547 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 | |
| Methylene Chloride | U | | 0.00117 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 | |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.00220 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 | JC 10/16/17 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U UJ | J0 | 0.000248 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Naphthalene | U | J3 | 0.00117 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 |
| n-Propylbenzene | U | | 0.000241 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Styrene | U | | 0.000273 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000308 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000426 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000426 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Tetrachloroethene | U | | 0.000322 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Toluene | U | | 0.000507 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | J3 | 0.000357 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | J3 | 0.000453 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000334 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000323 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Trichloroethene | U | | 0.000326 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000446 | 0.00584 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000865 | 0.00292 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000246 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000335 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000311 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Vinyl acetate | U | | 0.00279 | 0.0117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Vinyl chloride | U | | 0.000340 | 0.00117 | 1 | 09/26/2017 16:13 | WG1023207 |
| Xylenes, Total | U | | 0.000815 | 0.00350 | 1 | 09/26/2017 16:13 | WG1023207 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/26/2017 16:13* | WG1023207 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *09/26/2017 16:13* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/26/2017 16:13* | WG1023207 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.5 | | 1 | 09/25/2017 12:28 | WG1023603 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0120 | 0.0599 | 1 | 09/21/2017 22:20 | WG1023207 |
| Acrylonitrile | U | | 0.00214 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Benzene | U | | 0.000323 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Bromobenzene | U | | 0.000340 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Bromodichloromethane | U | | 0.000304 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Bromochloromethane | U | | 0.000467 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| Bromoform | U | | 0.000508 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Bromomethane | U | | 0.00161 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| n-Butylbenzene | U | | 0.000309 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| sec-Butylbenzene | U | | 0.000241 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| tert-Butylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Carbon disulfide | U | | 0.000265 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Carbon tetrachloride | U | | 0.000393 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Chlorobenzene | U | | 0.000254 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Chlorodibromomethane | U | | 0.000447 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Chloroethane | U | | 0.00113 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| Chloroform | U | | 0.000274 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| Chloromethane | U | | 0.000449 | 0.00299 | 1 | 09/21/2017 22:20 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000361 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000287 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00126 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000411 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Dibromomethane | U | | 0.000458 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000365 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000286 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000271 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000854 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000238 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000317 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000363 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| cis-1,2-Dichloroethene | U | | 0.000281 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000316 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000429 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000380 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000248 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000314 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000320 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000932 | 0.00299 | 1 | 09/21/2017 22:20 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000334 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Di-isopropyl ether | U | | 0.000297 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Ethylbenzene | U | | 0.000356 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000410 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 2-Hexanone | U UJ | J0 | 0.00164 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |
| n-Hexane | U | | 0.000347 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Iodomethane | U | | 0.00303 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Isopropylbenzene | U | | 0.000291 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000244 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 2-Butanone (MEK) | U UJ | J0 J3 | 0.00561 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Methylene Chloride | U | | 0.00120 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00225 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000254 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Naphthalene | U | | 0.00120 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| n-Propylbenzene | U | | 0.000247 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Styrene | U | | 0.000280 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000316 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000437 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000437 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Tetrachloroethene | U | | 0.000331 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Toluene | U | | 0.000520 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000367 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000465 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000343 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000332 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Trichloroethene | U | | 0.000334 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000458 | 0.00599 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000888 | 0.00299 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000253 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000344 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000319 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Vinyl acetate | U | | 0.00286 | 0.0120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Vinyl chloride | U | | 0.000349 | 0.00120 | 1 | 09/21/2017 22:20 | WG1023207 |
| Xylenes, Total | U | | 0.000836 | 0.00359 | 1 | 09/21/2017 22:20 | WG1023207 |
| *(S) Toluene-d8* | *95.7* | | | *80.0-120* | | *09/21/2017 22:20* | WG1023207 |
| *(S) Dibromofluoromethane* | *116* | | | *74.0-131* | | *09/21/2017 22:20* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *107* | | | *64.0-132* | | *09/21/2017 22:20* | WG1023207 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.8 | | 1 | 09/25/2017 12:28 | WG1023603 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.0119 | 0.0597 | 1 | 09/21/2017 22:38 | WG1023207 |
| Acrylonitrile | U | | 0.00214 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Benzene | U | | 0.000322 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Bromobenzene | U | | 0.000339 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Bromodichloromethane | U | | 0.000303 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Bromochloromethane | U | | 0.000466 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| Bromoform | U | | 0.000506 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Bromomethane | U | | 0.00160 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| n-Butylbenzene | U | | 0.000308 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| sec-Butylbenzene | U | | 0.000240 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| tert-Butylbenzene | U | | 0.000246 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Carbon disulfide | U | | 0.000264 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Carbon tetrachloride | U | | 0.000392 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Chlorobenzene | U | | 0.000253 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Chlorodibromomethane | U | | 0.000445 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Chloroethane | U | | 0.00113 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| Chloroform | U | | 0.000273 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| Chloromethane | U | | 0.000448 | 0.00298 | 1 | 09/21/2017 22:38 | WG1023207 |
| 2-Chlorotoluene | U | | 0.000359 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 4-Chlorotoluene | U | | 0.000287 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00125 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2-Dibromoethane | U | | 0.000409 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Dibromomethane | U | | 0.000456 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2-Dichlorobenzene | U | | 0.000364 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,3-Dichlorobenzene | U | | 0.000285 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,4-Dichlorobenzene | U | | 0.000270 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Dichlorodifluoromethane | U | | 0.000851 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1-Dichloroethane | U | | 0.000238 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2-Dichloroethane | U | | 0.000316 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1-Dichloroethene | U | | 0.000362 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| cis-1,2-Dichloroethene | U | | 0.000281 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| trans-1,2-Dichloroethene | U | | 0.000315 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2-Dichloropropane | U | | 0.000427 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1-Dichloropropene | U | | 0.000378 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,3-Dichloropropane | U | | 0.000247 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| cis-1,3-Dichloropropene | U | | 0.000313 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| trans-1,3-Dichloropropene | U | | 0.000319 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| trans-1,4-Dichloro-2-butene | U | | 0.000929 | 0.00298 | 1 | 09/21/2017 22:38 | WG1023207 |
| 2,2-Dichloropropane | U | | 0.000333 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Di-isopropyl ether | U | | 0.000296 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Ethylbenzene | U | | 0.000355 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Hexachloro-1,3-butadiene | U | | 0.000408 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 2-Hexanone | U UJ | J0 | 0.00164 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |
| n-Hexane | U | | 0.000346 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Iodomethane | U | | 0.00302 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Isopropylbenzene | U | | 0.000290 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| p-Isopropyltoluene | U | | 0.000244 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 2-Butanone (MEK) | U UJ | J0 J3 | 0.00559 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Methylene Chloride | U | | 0.00119 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00224 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000253 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Naphthalene | U | | 0.00119 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| n-Propylbenzene | U | | 0.000246 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Styrene | U | | 0.000279 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000315 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000436 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000436 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Tetrachloroethene | U | | 0.000330 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Toluene | U | | 0.000518 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2,3-Trichlorobenzene | U | | 0.000365 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2,4-Trichlorobenzene | U | | 0.000463 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1,1-Trichloroethane | U | | 0.000341 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,1,2-Trichloroethane | U | | 0.000331 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Trichloroethene | U | | 0.000333 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Trichlorofluoromethane | U | | 0.000456 | 0.00597 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2,3-Trichloropropane | U | | 0.000885 | 0.00298 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2,4-Trimethylbenzene | U | | 0.000252 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,2,3-Trimethylbenzene | U | | 0.000343 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| 1,3,5-Trimethylbenzene | U | | 0.000318 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Vinyl acetate | U | | 0.00285 | 0.0119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Vinyl chloride | U | | 0.000347 | 0.00119 | 1 | 09/21/2017 22:38 | WG1023207 |
| Xylenes, Total | U | | 0.000833 | 0.00358 | 1 | 09/21/2017 22:38 | WG1023207 |
| *(S) Toluene-d8* | *92.0* | | | *80.0-120* | | *09/21/2017 22:38* | WG1023207 |
| *(S) Dibromofluoromethane* | *118* | | | *74.0-131* | | *09/21/2017 22:38* | WG1023207 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *09/21/2017 22:38* | WG1023207 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 8.14 J | J | 1.05 | 25.0 | 1 | 09/22/2017 15:09 | WG1023529 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| Benzene | 0.286 J | J | 0.0896 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/22/2017 15:09 | WG1023529 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| cis-1,2-Dichloroethene | 0.148 J | J | 0.0933 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Ethylbenzene | 0.158 J | J | 0.158 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/22/2017 15:09 | WG1023529 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 2-Butanone (MEK) | 1.86 J | J | 1.28 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Toluene | 88.5 | | 0.412 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/22/2017 15:09 | WG1023529 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/22/2017 15:09 | WG1023529 |
| Xylenes, Total | 0.472 | J J | 0.316 | 1.50 | 1 | 09/22/2017 15:09 | WG1023529 |
| *(S) Toluene-d8* | *99.7* | | | *80.0-120* | | *09/22/2017 15:09* | WG1023529 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/22/2017 15:09* | WG1023529 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *80.0-120* | | *09/22/2017 15:09* | WG1023529 |

JC 10/16/17

# ANALYTICAL REPORT

October 03, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L938165 |
| Samples Received: | 09/21/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-218-12.5 L938165-01 Solid

Collected by: Shannon Mckernan | Collected date/time: 09/19/17 15:00 | Received date/time: 09/21/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024190 | 1 | 09/25/17 09:49 | 09/25/17 09:59 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1 | 09/19/17 15:00 | 09/22/17 02:30 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 100 | 09/19/17 15:00 | 09/27/17 14:23 | JAH |

## B-218-19 L938165-02 Solid

Collected by: Shannon Mckernan | Collected date/time: 09/19/17 15:10 | Received date/time: 09/21/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024190 | 1 | 09/25/17 09:49 | 09/25/17 09:59 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1 | 09/19/17 15:10 | 09/22/17 02:50 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 28.75 | 09/19/17 15:10 | 09/28/17 13:33 | BMB |

## B-218-25 L938165-03 Solid

Collected by: Shannon Mckernan | Collected date/time: 09/19/17 15:20 | Received date/time: 09/21/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024190 | 1 | 09/25/17 09:49 | 09/25/17 09:59 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1 | 09/19/17 15:20 | 09/22/17 03:10 | JHH |

## B-218-40 L938165-04 Solid

Collected by: Shannon Mckernan | Collected date/time: 09/19/17 15:45 | Received date/time: 09/21/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024190 | 1 | 09/25/17 09:49 | 09/25/17 09:59 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 56 | 09/19/17 15:45 | 09/27/17 14:42 | JAH |

## B-218-50 L938165-05 Solid

Collected by: Shannon Mckernan | Collected date/time: 09/19/17 16:15 | Received date/time: 09/21/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024190 | 1 | 09/25/17 09:49 | 09/25/17 09:59 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1 | 09/19/17 16:15 | 09/22/17 03:49 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 200 | 09/19/17 16:15 | 09/27/17 15:02 | JAH |

## B-220-15 L938165-06 Solid

Collected by: Shannon Mckernan | Collected date/time: 09/20/17 09:50 | Received date/time: 09/21/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023495 | 1 | 09/23/17 09:07 | 09/23/17 09:21 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1 | 09/20/17 09:50 | 09/22/17 04:09 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 25 | 09/20/17 09:50 | 09/27/17 15:22 | JAH |

## B-220-29 L938165-07 Solid

Collected by: Shannon Mckernan | Collected date/time: 09/20/17 10:10 | Received date/time: 09/21/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023495 | 1 | 09/23/17 09:07 | 09/23/17 09:21 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1 | 09/20/17 10:10 | 09/22/17 04:28 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1000 | 09/20/17 10:10 | 09/27/17 15:42 | JAH |

## B-220-32 L938165-08 Solid

Collected by: Shannon Mckernan | Collected date/time: 09/20/17 10:30 | Received date/time: 09/21/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023495 | 1 | 09/23/17 09:07 | 09/23/17 09:21 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1 | 09/20/17 10:30 | 09/22/17 04:48 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1000 | 09/20/17 10:30 | 09/27/17 16:01 | JAH |

## B-220-40 L938165-09 Solid

Collected by: Shannon Mckernan | Collected date/time: 09/20/17 10:40 | Received date/time: 09/21/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023495 | 1 | 09/23/17 09:07 | 09/23/17 09:21 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1 | 09/20/17 10:40 | 09/22/17 05:07 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1870 | 09/20/17 10:40 | 09/27/17 16:21 | JAH |

## B-913-70 L938165-10 Solid

Collected by: Shannon Mckernan | Collected date/time: 09/19/17 15:35 | Received date/time: 09/21/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024190 | 1 | 09/25/17 09:49 | 09/25/17 09:59 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1 | 09/19/17 15:35 | 09/22/17 05:26 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 100 | 09/19/17 15:35 | 09/27/17 16:41 | JAH |

## B-914-75 L938165-11 Solid

Collected by: Shannon Mckernan | Collected date/time: 09/20/17 10:55 | Received date/time: 09/21/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023495 | 1 | 09/23/17 09:07 | 09/23/17 09:21 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1 | 09/20/17 10:55 | 09/22/17 05:46 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1000 | 09/20/17 10:55 | 09/27/17 17:01 | JAH |

## B-220-50 L938165-12 Solid

Collected by: Shannon Mckernan | Collected date/time: 09/20/17 11:15 | Received date/time: 09/21/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1023495 | 1 | 09/23/17 09:07 | 09/23/17 09:21 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1 | 09/20/17 11:15 | 09/22/17 06:05 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023237 | 1000 | 09/20/17 11:15 | 09/27/17 17:20 | JAH |

## TRIP BLANK-092017 L938165-13 GW

Collected by: Shannon Mckernan | Collected date/time: 05/15/17 00:00 | Received date/time: 09/21/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1023738 | 1 | 09/23/17 08:34 | 09/23/17 08:34 | JHH |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.8 | | 1 | 09/25/2017 09:59 | WG1024190 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0569 | 1 | 09/22/2017 02:30 | WG1023237 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Benzene | U | | 0.000307 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Bromobenzene | U | | 0.000323 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Bromodichloromethane | U | | 0.000289 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Bromochloromethane | U | | 0.000444 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| Bromoform | U | | 0.000483 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Bromomethane | U | | 0.00153 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Carbon disulfide | U | J0 | 0.000252 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Carbon tetrachloride | U | | 0.000373 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Chlorobenzene | U | | 0.000241 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Chlorodibromomethane | U | | 0.000425 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Chloroethane | U | | 0.00108 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| Chloroform | U | | 0.000261 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| Chloromethane | U | J0 | 0.000427 | 0.00285 | 1 | 09/22/2017 02:30 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000273 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Dibromomethane | U | | 0.000435 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000272 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Dichlorodifluoromethane | U | J0 | 0.000812 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1-Dichloroethene | 0.0131 | | 0.000345 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| cis-1,2-Dichloroethene | 2.16 | | 0.0268 | 0.114 | 100 | 09/27/2017 14:23 | WG1023237 |
| trans-1,2-Dichloroethene | 0.0171 | | 0.000301 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000408 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000361 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000298 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000304 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000886 | 0.00285 | 1 | 09/22/2017 02:30 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Di-isopropyl ether | U | | 0.000282 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Ethylbenzene | U | | 0.000338 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000389 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |
| n-Hexane | U | | 0.000330 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Iodomethane | U | | 0.00288 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00533 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Methylene Chloride | U | | 0.00114 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000241 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Naphthalene | U | | 0.00114 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Styrene | U | | 0.000266 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000416 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000416 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Tetrachloroethene | 0.0438 | | 0.000314 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Toluene | U | | 0.000494 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000442 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000315 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Trichloroethene | 0.775 | | 0.0318 | 0.114 | 100 | 09/27/2017 14:23 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000435 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000844 | 0.00285 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000240 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000327 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000303 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Vinyl acetate | U | | 0.00272 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Vinyl chloride | 0.0281 | | 0.000331 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Xylenes, Total | U | | 0.000795 | 0.00342 | 1 | 09/22/2017 02:30 | WG1023237 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/22/2017 02:30* | WG1023237 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *09/27/2017 14:23* | WG1023237 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/22/2017 02:30* | WG1023237 |
| *(S) Dibromofluoromethane* | *90.8* | | | *74.0-131* | | *09/27/2017 14:23* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/22/2017 02:30* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *94.1* | | | *64.0-132* | | *09/27/2017 14:23* | WG1023237 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.1 | | 1 | 09/25/2017 09:59 | WG1024190 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0568 | 1 | 09/22/2017 02:50 | WG1023237 |
| Acrylonitrile | U | | 0.00203 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Benzene | U | | 0.000306 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Bromobenzene | U | | 0.000322 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Bromodichloromethane | U | | 0.000288 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Bromochloromethane | U | | 0.000443 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| Bromoform | U | | 0.000481 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Bromomethane | U | | 0.00152 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| n-Butylbenzene | U | | 0.000293 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| sec-Butylbenzene | U | | 0.000228 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| tert-Butylbenzene | U | | 0.000234 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Carbon disulfide | U | J0 | 0.000251 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Carbon tetrachloride | U | | 0.000372 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Chlorobenzene | U | | 0.000241 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Chlorodibromomethane | U | | 0.000423 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Chloroethane | 0.00550 | J | 0.00107 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| Chloroform | U | | 0.000260 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| Chloromethane | U | J0 | 0.000426 | 0.00284 | 1 | 09/22/2017 02:50 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000342 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000272 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000389 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Dibromomethane | U | | 0.000434 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000346 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000271 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Dichlorodifluoromethane | U | J0 | 0.000809 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000226 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000301 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1-Dichloroethene | 0.000759 | J | 0.000344 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| cis-1,2-Dichloroethene | 0.123 | | 0.000267 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| trans-1,2-Dichloroethene | 0.00346 | | 0.000300 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000406 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000360 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000235 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000297 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000303 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000883 | 0.00284 | 1 | 09/22/2017 02:50 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000317 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Di-isopropyl ether | U | | 0.000281 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Ethylbenzene | U | | 0.000337 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000388 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 2-Hexanone | U | | 0.00155 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |
| n-Hexane | U | | 0.000329 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Iodomethane | U | | 0.00287 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Isopropylbenzene | U | | 0.000276 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00531 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Methylene Chloride | U | | 0.00114 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00213 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000241 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Naphthalene | U | | 0.00114 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| n-Propylbenzene | U | | 0.000234 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Styrene | U | | 0.000266 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000300 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000414 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000414 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Tetrachloroethene | 0.000476 | J | 0.000313 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Toluene | U | | 0.000493 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000440 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000325 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000314 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Trichloroethene | 0.00946 | J | 0.00910 | 0.0326 | 28.75 | 09/28/2017 13:33 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000434 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000841 | 0.00284 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000239 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000326 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000302 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Vinyl acetate | U | | 0.00271 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Vinyl chloride | 0.0286 | | 0.000330 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Xylenes, Total | U | | 0.000792 | 0.00341 | 1 | 09/22/2017 02:50 | WG1023237 |
| *(S) Toluene-d8* | *99.3* | | | *80.0-120* | | *09/22/2017 02:50* | WG1023237 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/28/2017 13:33* | WG1023237 |
| *(S) Dibromofluoromethane* | *94.2* | | | *74.0-131* | | *09/28/2017 13:33* | WG1023237 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/22/2017 02:50* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *96.8* | | | *64.0-132* | | *09/28/2017 13:33* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/22/2017 02:50* | WG1023237 |

**Sample Narrative:**

L938165-02 WG1023237: No more stir bars left to run

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.4 | | 1 | 09/25/2017 09:59 | WG1024190 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0579 | 1 | 09/22/2017 03:10 | WG1023237 |
| Acrylonitrile | U | | 0.00207 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Bromobenzene | U | | 0.000329 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Bromochloromethane | U | | 0.000452 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| Bromoform | U | | 0.000491 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Bromomethane | U | | 0.00155 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Carbon disulfide | U | J0 | 0.000256 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Carbon tetrachloride | U | | 0.000380 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Chlorobenzene | U | | 0.000245 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Chlorodibromomethane | U | | 0.000432 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Chloroethane | 0.00115 | J | 0.00110 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| Chloroform | U | | 0.000265 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| Chloromethane | U | J0 | 0.000434 | 0.00289 | 1 | 09/22/2017 03:10 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000397 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Dibromomethane | U | | 0.000442 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Dichlorodifluoromethane | U | J0 | 0.000826 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1-Dichloroethene | 0.000798 | J | 0.000351 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| cis-1,2-Dichloroethene | 0.0781 | | 0.000272 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| trans-1,2-Dichloroethene | 0.00124 | | 0.000306 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000415 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000367 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000303 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000901 | 0.00289 | 1 | 09/22/2017 03:10 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000323 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Di-isopropyl ether | U | | 0.000287 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Ethylbenzene | U | | 0.000344 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000396 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |
| n-Hexane | U | | 0.000336 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Iodomethane | U | | 0.00293 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Isopropylbenzene | U | | 0.000281 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00542 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Methylene Chloride | U | | 0.00116 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000245 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Naphthalene | U | | 0.00116 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000423 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000423 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Tetrachloroethene | 0.0104 | | 0.000320 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Toluene | U | | 0.000503 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000449 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Trichloroethene | 0.0144 | | 0.000323 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000442 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000858 | 0.00289 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000332 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Vinyl chloride | 0.0449 | | 0.000337 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Xylenes, Total | U | | 0.000808 | 0.00347 | 1 | 09/22/2017 03:10 | WG1023237 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/22/2017 03:10* | WG1023237 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/22/2017 03:10* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/22/2017 03:10* | WG1023237 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.1 | | 1 | 09/25/2017 09:59 | WG1024190 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.615 | 3.07 | 56 | 09/27/2017 14:42 | WG1023237 |
| Acrylonitrile | U | | 0.110 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Benzene | U | | 0.0166 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Bromobenzene | U | | 0.0175 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Bromodichloromethane | U | | 0.0156 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Bromochloromethane | U | | 0.0239 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| Bromoform | U | | 0.0260 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Bromomethane | U | | 0.0823 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| n-Butylbenzene | U | | 0.0158 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| sec-Butylbenzene | U | | 0.0123 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| tert-Butylbenzene | U | | 0.0126 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Carbon disulfide | U | | 0.0136 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Carbon tetrachloride | U | | 0.0202 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Chlorobenzene | U | | 0.0131 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Chlorodibromomethane | U | | 0.0229 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Chloroethane | U | | 0.0582 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| Chloroform | U | | 0.0141 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| Chloromethane | U | | 0.0231 | 0.154 | 56 | 09/27/2017 14:42 | WG1023237 |
| 2-Chlorotoluene | U | | 0.0184 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 4-Chlorotoluene | U | | 0.0147 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0646 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.0211 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Dibromomethane | U | | 0.0235 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.0188 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.0147 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.0138 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Dichlorodifluoromethane | U | | 0.0438 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.0122 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.0162 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1-Dichloroethene | U | | 0.0187 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| cis-1,2-Dichloroethene | 5.25 | | 0.0145 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| trans-1,2-Dichloroethene | 0.0724 | | 0.0162 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.0220 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.0195 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.0127 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.0161 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.0165 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | J4 | 0.0479 | 0.154 | 56 | 09/27/2017 14:42 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.0171 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Di-isopropyl ether | U | | 0.0153 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Ethylbenzene | U | | 0.0182 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.0211 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 2-Hexanone | U | | 0.0842 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |
| n-Hexane | U | | 0.0178 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Iodomethane | U | | 0.156 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Isopropylbenzene | U | | 0.0149 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| p-Isopropyltoluene | U | | 0.0125 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.288 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Methylene Chloride | U | | 0.0615 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.115 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0131 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Naphthalene | U | | 0.0615 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| n-Propylbenzene | U | | 0.0126 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Styrene | U | | 0.0144 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0162 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0224 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0224 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Tetrachloroethene | 0.421 | | 0.0169 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Toluene | U | | 0.0267 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.0188 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.0238 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.0176 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.0170 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Trichloroethene | 0.255 | | 0.0171 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Trichlorofluoromethane | U | | 0.0235 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.0456 | 0.154 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.0130 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.0177 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.0164 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Vinyl acetate | U | | 0.147 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Vinyl chloride | 0.271 | | 0.0179 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Xylenes, Total | U | | 0.0429 | 0.184 | 56 | 09/27/2017 14:42 | WG1023237 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/27/2017 14:42* | WG1023237 |
| *(S) Dibromofluoromethane* | *94.7* | | | *74.0-131* | | *09/27/2017 14:42* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *97.5* | | | *64.0-132* | | *09/27/2017 14:42* | WG1023237 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.8 | | 1 | 09/25/2017 09:59 | WG1024190 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0173 | J J0 | 0.0107 | 0.0533 | 1 | 09/22/2017 03:49 | WG1023237 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Benzene | U | | 0.000288 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Bromobenzene | U | | 0.000303 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Bromodichloromethane | U | | 0.000271 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Bromochloromethane | U | | 0.000416 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| Bromoform | U | | 0.000452 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Bromomethane | U | | 0.00143 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| n-Butylbenzene | U | | 0.000275 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| sec-Butylbenzene | U | | 0.000214 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Carbon disulfide | 0.00186 | J0 | 0.000236 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Carbon tetrachloride | U | | 0.000350 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Chlorobenzene | U | | 0.000226 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Chlorodibromomethane | U | | 0.000398 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Chloroethane | U | | 0.00101 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| Chloroform | U | | 0.000244 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| Chloromethane | U | J0 | 0.000400 | 0.00267 | 1 | 09/22/2017 03:49 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000321 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000256 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000366 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Dibromomethane | U | | 0.000407 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000255 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Dichlorodifluoromethane | U | J0 | 0.000760 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000283 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1-Dichloroethene | 0.00704 | | 0.000323 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| cis-1,2-Dichloroethene | 3.19 | | 0.0501 | 0.213 | 200 | 09/27/2017 15:02 | WG1023237 |
| trans-1,2-Dichloroethene | 0.0173 | | 0.000281 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000382 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000338 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000285 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000830 | 0.00267 | 1 | 09/22/2017 03:49 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Di-isopropyl ether | U | | 0.000264 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Ethylbenzene | U | | 0.000317 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000365 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 2-Hexanone | U | | 0.00146 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |
| n-Hexane | U | | 0.000309 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Iodomethane | U | | 0.00270 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Isopropylbenzene | U | | 0.000259 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00499 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Methylene Chloride | U | | 0.00107 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Naphthalene | U | | 0.00107 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000389 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000389 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Tetrachloroethene | 2.01 | | 0.0589 | 0.213 | 200 | 09/27/2017 15:02 | WG1023237 |
| Toluene | U | | 0.000463 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000414 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000305 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Trichloroethene | 0.953 | | 0.0595 | 0.213 | 200 | 09/27/2017 15:02 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000407 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000790 | 0.00267 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000306 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000284 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Vinyl acetate | U | | 0.00255 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Vinyl chloride | 0.0144 | | 0.000310 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Xylenes, Total | U | | 0.000744 | 0.00320 | 1 | 09/22/2017 03:49 | WG1023237 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/22/2017 03:49* | WG1023237 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/27/2017 15:02* | WG1023237 |
| *(S) Dibromofluoromethane* | *97.9* | | | *74.0-131* | | *09/27/2017 15:02* | WG1023237 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/22/2017 03:49* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *09/22/2017 03:49* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *64.0-132* | | *09/27/2017 15:02* | WG1023237 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.9 | | 1 | 09/23/2017 09:21 | WG1023495 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0569 | 1 | 09/22/2017 04:09 | WG1023237 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Benzene | U | | 0.000307 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Bromobenzene | U | | 0.000323 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Bromodichloromethane | U | | 0.000289 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Bromochloromethane | U | | 0.000443 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| Bromoform | U | | 0.000482 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Bromomethane | U | | 0.00152 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| n-Butylbenzene | U | | 0.000293 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| tert-Butylbenzene | U | | 0.000234 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Carbon disulfide | U | J0 | 0.000251 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Carbon tetrachloride | U | | 0.000373 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Chlorobenzene | U | | 0.000241 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Chlorodibromomethane | U | | 0.000424 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Chloroethane | U | | 0.00108 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| Chloroform | U | | 0.000260 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| Chloromethane | U | J0 | 0.000426 | 0.00284 | 1 | 09/22/2017 04:09 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000342 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000273 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000390 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Dibromomethane | U | | 0.000434 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000272 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Dichlorodifluoromethane | U | J0 | 0.000811 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000226 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000301 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1-Dichloroethene | 0.000875 | J | 0.000345 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| cis-1,2-Dichloroethene | 0.576 | | 0.00669 | 0.0284 | 25 | 09/27/2017 15:22 | WG1023237 |
| trans-1,2-Dichloroethene | 0.00163 | | 0.000300 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000407 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000360 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000235 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000298 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000304 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000885 | 0.00284 | 1 | 09/22/2017 04:09 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000317 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Di-isopropyl ether | U | | 0.000282 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Ethylbenzene | U | | 0.000338 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000389 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |
| n-Hexane | U | | 0.000330 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Iodomethane | U | | 0.00288 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Isopropylbenzene | U | | 0.000276 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00532 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Methylene Chloride | U | | 0.00114 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000241 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Naphthalene | U | | 0.00114 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| n-Propylbenzene | U | | 0.000234 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Styrene | U | | 0.000266 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000300 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000415 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000415 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Tetrachloroethene | 0.0351 | | 0.000314 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Toluene | U | | 0.000493 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000441 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000325 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000315 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Trichloroethene | 0.0526 | | 0.000317 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000434 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000843 | 0.00284 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000240 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000326 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000302 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Vinyl acetate | U | | 0.00272 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Vinyl chloride | 0.0771 | | 0.000331 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Xylenes, Total | U | | 0.000794 | 0.00341 | 1 | 09/22/2017 04:09 | WG1023237 |
| *(S) Toluene-d8* | *98.6* | | | *80.0-120* | | *09/22/2017 04:09* | WG1023237 |
| *(S) Toluene-d8* | *112* | | | *80.0-120* | | *09/27/2017 15:22* | WG1023237 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/22/2017 04:09* | WG1023237 |
| *(S) Dibromofluoromethane* | *96.2* | | | *74.0-131* | | *09/27/2017 15:22* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *09/27/2017 15:22* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *98.9* | | | *64.0-132* | | *09/22/2017 04:09* | WG1023237 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.0 | | 1 | 09/23/2017 09:21 | WG1023495 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0387 | J J0 V3 | 0.0116 | 0.0581 | 1 | 09/22/2017 04:28 | WG1023237 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Benzene | U | | 0.000314 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Bromochloromethane | U | | 0.000453 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| Bromoform | U | | 0.000493 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Bromomethane | U | | 0.00156 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| n-Butylbenzene | U | | 0.000300 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| sec-Butylbenzene | U | | 0.000234 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Carbon disulfide | 0.000360 | J J0 V3 | 0.000257 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Chlorodibromomethane | U | | 0.000434 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Chloroethane | U | | 0.00110 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| Chloroform | 0.000671 | J V3 | 0.000266 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| Chloromethane | U | J0 | 0.000436 | 0.00291 | 1 | 09/22/2017 04:28 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000350 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000399 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Dibromomethane | U | | 0.000444 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000278 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000263 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Dichlorodifluoromethane | U | J0 | 0.000829 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000308 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1-Dichloroethene | 0.00352 | V3 | 0.000352 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| cis-1,2-Dichloroethene | 2.13 | | 0.273 | 1.16 | 1000 | 09/27/2017 15:42 | WG1023237 |
| trans-1,2-Dichloroethene | 0.00550 | V3 | 0.000307 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000241 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000305 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000904 | 0.00291 | 1 | 09/22/2017 04:28 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |
| n-Hexane | U | | 0.000337 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 2-Butanone (MEK) | 0.00592 | J V3 | 0.00544 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Methylene Chloride | U | | 0.00116 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00219 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Naphthalene | U | | 0.00116 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000307 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Tetrachloroethene | 14.0 | | 0.321 | 1.16 | 1000 | 09/27/2017 15:42 | WG1023237 |
| Toluene | 0.000672 | J | 0.000504 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000356 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000451 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Trichloroethene | 1.74 | | 0.324 | 1.16 | 1000 | 09/27/2017 15:42 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000444 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000861 | 0.00291 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2,4-Trimethylbenzene | 0.000401 | J V3 | 0.000245 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000334 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Vinyl acetate | U | | 0.00278 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Vinyl chloride | 0.0490 | V3 | 0.000338 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Xylenes, Total | U | | 0.000811 | 0.00349 | 1 | 09/22/2017 04:28 | WG1023237 |
| *(S) Toluene-d8* | *91.0* | | | *80.0-120* | | *09/22/2017 04:28* | WG1023237 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *09/27/2017 15:42* | WG1023237 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/27/2017 15:42* | WG1023237 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/22/2017 04:28* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/22/2017 04:28* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *09/27/2017 15:42* | WG1023237 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.7 | | 1 | 09/23/2017 09:21 | WG1023495 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0570 | 1 | 09/22/2017 04:48 | WG1023237 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Bromobenzene | U | | 0.000324 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Bromodichloromethane | U | | 0.000290 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Bromochloromethane | U | | 0.000445 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| Bromoform | U | | 0.000484 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Bromomethane | U | | 0.00153 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Carbon disulfide | U | J0 | 0.000252 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Carbon tetrachloride | U | | 0.000374 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Chlorodibromomethane | U | | 0.000426 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Chloroethane | 0.00202 | J | 0.00108 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| Chloroform | U | | 0.000261 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| Chloromethane | U | J0 | 0.000428 | 0.00285 | 1 | 09/22/2017 04:48 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000274 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Dibromomethane | U | | 0.000436 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000273 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000258 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Dichlorodifluoromethane | U | J0 | 0.000813 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1-Dichloroethene | 0.00451 | | 0.000346 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| cis-1,2-Dichloroethene | 1.55 | | 0.268 | 1.14 | 1000 | 09/27/2017 16:01 | WG1023237 |
| trans-1,2-Dichloroethene | 0.00784 | | 0.000301 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000408 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000362 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000299 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000305 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000888 | 0.00285 | 1 | 09/22/2017 04:48 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Di-isopropyl ether | U | | 0.000283 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Ethylbenzene | U | | 0.000339 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000390 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |
| n-Hexane | U | | 0.000331 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Iodomethane | U | | 0.00289 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000233 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00534 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Methylene Chloride | U | | 0.00114 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Naphthalene | U | | 0.00114 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000416 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000416 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Tetrachloroethene | 6.52 | | 0.315 | 1.14 | 1000 | 09/27/2017 16:01 | WG1023237 |
| Toluene | U | | 0.000495 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000443 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000316 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Trichloroethene | 0.692 | J | 0.318 | 1.14 | 1000 | 09/27/2017 16:01 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000436 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000845 | 0.00285 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2,4-Trimethylbenzene | 0.000410 | J | 0.000241 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000327 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000303 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Vinyl acetate | U | | 0.00273 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Vinyl chloride | 0.143 | | 0.000332 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Xylenes, Total | U | | 0.000796 | 0.00342 | 1 | 09/22/2017 04:48 | WG1023237 |
| *(S) Toluene-d8* | *95.7* | | | *80.0-120* | | *09/22/2017 04:48* | WG1023237 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/27/2017 16:01* | WG1023237 |
| *(S) Dibromofluoromethane* | *98.4* | | | *74.0-131* | | *09/27/2017 16:01* | WG1023237 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/22/2017 04:48* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/22/2017 04:48* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *98.8* | | | *64.0-132* | | *09/27/2017 16:01* | WG1023237 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.1 | | 1 | 09/23/2017 09:21 | WG1023495 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0111 | 0.0555 | 1 | 09/22/2017 05:07 | WG1023237 |
| Acrylonitrile | U | | 0.00199 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Benzene | U | | 0.000300 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Bromobenzene | U | | 0.000315 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Bromodichloromethane | U | | 0.000282 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Bromochloromethane | U | | 0.000433 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| Bromoform | U | | 0.000471 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Bromomethane | U | | 0.00149 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| n-Butylbenzene | U | | 0.000286 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| tert-Butylbenzene | U | | 0.000229 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Carbon disulfide | 0.00104 | J J0 | 0.000245 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Carbon tetrachloride | U | | 0.000364 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Chlorobenzene | U | | 0.000235 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Chlorodibromomethane | U | | 0.000414 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Chloroethane | U | | 0.00105 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| Chloroform | U | | 0.000254 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| Chloromethane | U | J0 | 0.000416 | 0.00278 | 1 | 09/22/2017 05:07 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000334 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000266 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000381 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Dibromomethane | U | | 0.000424 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000265 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000251 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Dichlorodifluoromethane | U | J0 | 0.000792 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000221 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000294 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1-Dichloroethene | 0.00259 | | 0.000336 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| cis-1,2-Dichloroethene | 2.73 | | 0.487 | 2.08 | 1870 | 09/27/2017 16:21 | WG1023237 |
| trans-1,2-Dichloroethene | 0.00562 | | 0.000293 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000397 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000352 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000230 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000291 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000296 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000864 | 0.00278 | 1 | 09/22/2017 05:07 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000310 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Di-isopropyl ether | U | | 0.000275 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Ethylbenzene | U | | 0.000330 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000380 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 2-Hexanone | U | | 0.00152 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |
| n-Hexane | U | | 0.000322 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Iodomethane | U | | 0.00281 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Isopropylbenzene | U | | 0.000270 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000226 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00520 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Methylene Chloride | U | | 0.00111 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00209 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000235 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Naphthalene | U | | 0.00111 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| n-Propylbenzene | U | | 0.000229 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Styrene | U | | 0.000260 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000293 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000405 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000405 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Tetrachloroethene | 38.9 | | 0.573 | 2.08 | 1870 | 09/27/2017 16:21 | WG1023237 |
| Toluene | U | | 0.000482 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000340 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000431 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000317 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000308 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Trichloroethene | 5.82 | | 0.579 | 2.08 | 1870 | 09/27/2017 16:21 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000424 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000823 | 0.00278 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000234 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000319 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000295 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Vinyl acetate | U | | 0.00265 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Vinyl chloride | 0.132 | | 0.000323 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Xylenes, Total | U | | 0.000775 | 0.00333 | 1 | 09/22/2017 05:07 | WG1023237 |
| *(S) Toluene-d8* | *95.1* | | | *80.0-120* | | *09/22/2017 05:07* | WG1023237 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/27/2017 16:21* | WG1023237 |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* | | *09/22/2017 05:07* | WG1023237 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/27/2017 16:21* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/22/2017 05:07* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/27/2017 16:21* | WG1023237 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.2 | | 1 | 09/25/2017 09:59 | WG1024190 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0106 | 0.0531 | 1 | 09/22/2017 05:26 | WG1023237 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Benzene | U | | 0.000287 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Bromobenzene | U | | 0.000302 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Bromodichloromethane | U | | 0.000270 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Bromochloromethane | U | | 0.000414 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| Bromoform | U | | 0.000450 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Bromomethane | U | | 0.00142 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| n-Butylbenzene | U | | 0.000274 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| sec-Butylbenzene | U | | 0.000213 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| tert-Butylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Carbon disulfide | 0.00221 | J0 | 0.000235 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Carbon tetrachloride | U | | 0.000348 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Chlorobenzene | U | | 0.000225 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Chlorodibromomethane | U | | 0.000396 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Chloroethane | U | | 0.00100 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| Chloroform | U | | 0.000243 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| Chloromethane | U | J0 | 0.000398 | 0.00265 | 1 | 09/22/2017 05:26 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000320 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000364 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Dibromomethane | U | | 0.000406 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000324 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000254 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000240 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Dichlorodifluoromethane | U | J0 | 0.000757 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000211 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000281 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1-Dichloroethene | 0.00535 | | 0.000322 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| cis-1,2-Dichloroethene | 5.52 | | 0.0249 | 0.106 | 100 | 09/27/2017 16:41 | WG1023237 |
| trans-1,2-Dichloroethene | 0.0127 | | 0.000280 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000380 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000337 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000278 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000283 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000826 | 0.00265 | 1 | 09/22/2017 05:26 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000296 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Di-isopropyl ether | U | | 0.000263 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Ethylbenzene | U | | 0.000315 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000363 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 2-Hexanone | U | | 0.00145 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |
| n-Hexane | U | | 0.000308 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Iodomethane | U | | 0.00269 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Isopropylbenzene | U | | 0.000258 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00497 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Methylene Chloride | U | | 0.00106 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000225 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Naphthalene | U | | 0.00106 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| n-Propylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Styrene | U | | 0.000248 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000280 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000388 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000388 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Tetrachloroethene | 0.537 | | 0.0293 | 0.106 | 100 | 09/27/2017 16:41 | WG1023237 |
| Toluene | U | | 0.000461 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000412 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000304 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000294 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Trichloroethene | 0.180 | | 0.000296 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000406 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000787 | 0.00265 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000224 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000305 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000282 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Vinyl acetate | U | | 0.00254 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Vinyl chloride | 0.00427 | | 0.000309 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Xylenes, Total | U | | 0.000741 | 0.00319 | 1 | 09/22/2017 05:26 | WG1023237 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *09/27/2017 16:41* | WG1023237 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/22/2017 05:26* | WG1023237 |
| *(S) Dibromofluoromethane* | *98.8* | | | *74.0-131* | | *09/27/2017 16:41* | WG1023237 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/22/2017 05:26* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/27/2017 16:41* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/22/2017 05:26* | WG1023237 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.0 | | 1 | 09/23/2017 09:21 | WG1023495 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0204 | J J0 | 0.0108 | 0.0538 | 1 | 09/22/2017 05:46 | WG1023237 |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Benzene | U | | 0.000290 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Bromobenzene | U | | 0.000305 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Bromodichloromethane | U | | 0.000273 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Bromochloromethane | U | | 0.000419 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| Bromoform | U | | 0.000456 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Bromomethane | U | | 0.00144 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| n-Butylbenzene | U | | 0.000277 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| sec-Butylbenzene | U | | 0.000216 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| tert-Butylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Carbon disulfide | 0.00177 | J0 | 0.000238 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Carbon tetrachloride | U | | 0.000353 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Chlorobenzene | U | | 0.000228 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Chlorodibromomethane | U | | 0.000401 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Chloroethane | U | | 0.00102 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| Chloroform | U | | 0.000246 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| Chloromethane | U | J0 | 0.000403 | 0.00269 | 1 | 09/22/2017 05:46 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000324 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000258 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000369 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Dibromomethane | U | | 0.000411 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Dichlorodifluoromethane | U | J0 | 0.000767 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1-Dichloroethene | 0.00164 | | 0.000326 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| cis-1,2-Dichloroethene | 0.0913 | | 0.000253 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| trans-1,2-Dichloroethene | 0.000689 | J | 0.000284 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000385 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000341 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000223 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000282 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000287 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000837 | 0.00269 | 1 | 09/22/2017 05:46 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Di-isopropyl ether | U | | 0.000267 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Ethylbenzene | U | | 0.000319 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000368 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 2-Hexanone | U | | 0.00147 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |
| n-Hexane | 0.00212 | J | 0.000312 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Iodomethane | U | | 0.00272 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Isopropylbenzene | U | | 0.000261 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000219 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00503 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Methylene Chloride | U | | 0.00108 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Naphthalene | U | | 0.00108 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| n-Propylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Styrene | U | | 0.000252 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000393 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000393 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Tetrachloroethene | 15.5 | | 0.297 | 1.08 | 1000 | 09/27/2017 17:01 | WG1023237 |
| Toluene | U | | 0.000467 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000329 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000417 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000308 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Trichloroethene | 1.25 | | 0.300 | 1.08 | 1000 | 09/27/2017 17:01 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000411 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000797 | 0.00269 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000309 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Vinyl acetate | U | | 0.00257 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Vinyl chloride | 0.00210 | | 0.000313 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Xylenes, Total | U | | 0.000751 | 0.00323 | 1 | 09/22/2017 05:46 | WG1023237 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/27/2017 17:01* | WG1023237 |
| *(S) Toluene-d8* | *95.0* | | | *80.0-120* | | *09/22/2017 05:46* | WG1023237 |
| *(S) Dibromofluoromethane* | *98.9* | | | *74.0-131* | | *09/27/2017 17:01* | WG1023237 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *09/22/2017 05:46* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/27/2017 17:01* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/22/2017 05:46* | WG1023237 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.0 | | 1 | 09/23/2017 09:21 | WG1023495 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0133 | J J0 | 0.0108 | 0.0538 | 1 | 09/22/2017 06:05 | WG1023237 |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Benzene | U | | 0.000290 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Bromobenzene | U | | 0.000305 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Bromodichloromethane | U | | 0.000273 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Bromochloromethane | U | | 0.000419 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| Bromoform | U | | 0.000456 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Bromomethane | U | | 0.00144 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| n-Butylbenzene | U | | 0.000277 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| sec-Butylbenzene | U | | 0.000216 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| tert-Butylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Carbon disulfide | 0.00188 | J0 | 0.000238 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Carbon tetrachloride | U | | 0.000353 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Chlorobenzene | U | | 0.000228 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Chlorodibromomethane | U | | 0.000401 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Chloroethane | U | | 0.00102 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| Chloroform | U | | 0.000246 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| Chloromethane | U | J0 | 0.000403 | 0.00269 | 1 | 09/22/2017 06:05 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000324 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000258 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000369 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Dibromomethane | U | | 0.000411 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Dichlorodifluoromethane | U | J0 | 0.000767 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1-Dichloroethene | 0.00161 | | 0.000326 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| cis-1,2-Dichloroethene | 0.0766 | | 0.000253 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| trans-1,2-Dichloroethene | 0.000658 | J | 0.000284 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000385 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000341 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000223 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000282 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000287 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.000837 | 0.00269 | 1 | 09/22/2017 06:05 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Di-isopropyl ether | U | | 0.000267 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Ethylbenzene | U | | 0.000319 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000368 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 2-Hexanone | U | | 0.00147 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |
| n-Hexane | 0.00215 | J | 0.000312 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Iodomethane | U | | 0.00272 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Isopropylbenzene | U | | 0.000261 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000219 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00503 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Methylene Chloride | U | | 0.00108 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Naphthalene | U | | 0.00108 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| n-Propylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Styrene | U | | 0.000252 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000393 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000393 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Tetrachloroethene | 18.5 | | 0.297 | 1.08 | 1000 | 09/27/2017 17:20 | WG1023237 |
| Toluene | U | | 0.000467 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000329 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000417 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000308 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Trichloroethene | 2.03 | | 0.300 | 1.08 | 1000 | 09/27/2017 17:20 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000411 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000797 | 0.00269 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000309 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Vinyl acetate | U | | 0.00257 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Vinyl chloride | 0.00191 | | 0.000313 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Xylenes, Total | U | | 0.000751 | 0.00323 | 1 | 09/22/2017 06:05 | WG1023237 |
| *(S) Toluene-d8* | *94.7* | | | *80.0-120* | | *09/22/2017 06:05* | WG1023237 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/27/2017 17:20* | WG1023237 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/27/2017 17:20* | WG1023237 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/22/2017 06:05* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *64.0-132* | | *09/22/2017 06:05* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/27/2017 17:20* | WG1023237 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1.05 | 25.0 | 1 | 09/23/2017 08:34 | WG1023738 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/23/2017 08:34 | WG1023738 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.257 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/23/2017 08:34 | WG1023738 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/23/2017 08:34* | WG1023738 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *09/23/2017 08:34* | WG1023738 |
| *(S) 4-Bromofluorobenzene* | *89.7* | | | *80.0-120* | | *09/23/2017 08:34* | WG1023738 |

## Method Blank (MB)

(MB) R3251868-1 09/23/17 09:21

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000600 | | | |

## L938165-07 Original Sample (OS) • Duplicate (DUP)

(OS) L938165-07 09/23/17 09:21 • (DUP) R3251868-3 09/23/17 09:21

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 86.0 | 87.2 | 1 | 1.34 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3251868-2 09/23/17 09:21

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3252217-1 09/25/17 09:59

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000100 | | | |

## L938165-02 Original Sample (OS) • Duplicate (DUP)

(OS) L938165-02 09/25/17 09:59 • (DUP) R3252217-3 09/25/17 09:59

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 88.1 | 88.1 | 1 | 0.00515 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3252217-2 09/25/17 09:59

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3252668-2 09/21/17 22:17

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3252668-2 09/21/17 22:17

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *98.2* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* |

## Laboratory Control Sample (LCS)

(LCS) R3252668-1 09/21/17 21:19

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 0.125 | 0.115 | 91.6 | 11.0-160 | |
| Acrylonitrile | 0.125 | 0.110 | 88.4 | 61.0-143 | |
| Benzene | 0.0250 | 0.0253 | 101 | 71.0-124 | |
| Bromobenzene | 0.0250 | 0.0223 | 89.4 | 78.0-120 | |
| Bromodichloromethane | 0.0250 | 0.0253 | 101 | 75.0-120 | |
| Bromochloromethane | 0.0250 | 0.0265 | 106 | 80.0-121 | |
| Bromoform | 0.0250 | 0.0212 | 84.9 | 65.0-133 | |
| Bromomethane | 0.0250 | 0.0293 | 117 | 26.0-160 | |
| n-Butylbenzene | 0.0250 | 0.0270 | 108 | 73.0-126 | |
| sec-Butylbenzene | 0.0250 | 0.0267 | 107 | 75.0-121 | |
| tert-Butylbenzene | 0.0250 | 0.0261 | 104 | 74.0-122 | |
| Carbon disulfide | 0.0250 | 0.0256 | 102 | 53.0-130 | |
| Carbon tetrachloride | 0.0250 | 0.0244 | 97.7 | 66.0-123 | |
| Chlorobenzene | 0.0250 | 0.0263 | 105 | 79.0-121 | |
| Chlorodibromomethane | 0.0250 | 0.0250 | 100 | 74.0-128 | |
| Chloroethane | 0.0250 | 0.0238 | 95.3 | 51.0-147 | |
| Chloroform | 0.0250 | 0.0258 | 103 | 73.0-123 | |
| Chloromethane | 0.0250 | 0.0174 | 69.6 | 51.0-138 | |
| 2-Chlorotoluene | 0.0250 | 0.0249 | 99.7 | 72.0-124 | |
| 4-Chlorotoluene | 0.0250 | 0.0240 | 96.0 | 78.0-120 | |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0222 | 88.7 | 65.0-126 | |
| 1,2-Dibromoethane | 0.0250 | 0.0257 | 103 | 78.0-122 | |
| Dibromomethane | 0.0250 | 0.0268 | 107 | 79.0-120 | |
| 1,2-Dichlorobenzene | 0.0250 | 0.0267 | 107 | 80.0-120 | |
| 1,3-Dichlorobenzene | 0.0250 | 0.0270 | 108 | 72.0-123 | |
| 1,4-Dichlorobenzene | 0.0250 | 0.0259 | 104 | 77.0-120 | |
| Dichlorodifluoromethane | 0.0250 | 0.0197 | 78.9 | 49.0-155 | |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0166 | 66.5 | 68.0-126 | J4 |
| 1,1-Dichloroethane | 0.0250 | 0.0234 | 93.6 | 70.0-128 | |
| 1,2-Dichloroethane | 0.0250 | 0.0245 | 98.2 | 69.0-128 | |
| 1,1-Dichloroethene | 0.0250 | 0.0297 | 119 | 63.0-131 | |
| cis-1,2-Dichloroethene | 0.0250 | 0.0259 | 104 | 74.0-123 | |
| trans-1,2-Dichloroethene | 0.0250 | 0.0260 | 104 | 72.0-122 | |
| 1,2-Dichloropropane | 0.0250 | 0.0231 | 92.4 | 75.0-126 | |
| 1,1-Dichloropropene | 0.0250 | 0.0250 | 99.9 | 72.0-130 | |
| 1,3-Dichloropropane | 0.0250 | 0.0245 | 98.1 | 80.0-121 | |
| cis-1,3-Dichloropropene | 0.0250 | 0.0237 | 94.6 | 80.0-125 | |
| trans-1,3-Dichloropropene | 0.0250 | 0.0232 | 92.6 | 75.0-129 | |
| 2,2-Dichloropropane | 0.0250 | 0.0236 | 94.3 | 60.0-129 | |
| Di-isopropyl ether | 0.0250 | 0.0199 | 79.6 | 62.0-133 | |

## Laboratory Control Sample (LCS)

(LCS) R3252668-1 09/21/17 21:19

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0255 | 102 | 77.0-120 | |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0271 | 108 | 68.0-128 | |
| 2-Hexanone | 0.125 | 0.111 | 88.7 | 61.0-143 | |
| n-Hexane | 0.0250 | 0.0206 | 82.5 | 57.0-125 | |
| Isopropylbenzene | 0.0250 | 0.0255 | 102 | 75.0-120 | |
| Iodomethane | 0.125 | 0.116 | 92.7 | 67.0-132 | |
| p-Isopropyltoluene | 0.0250 | 0.0260 | 104 | 74.0-125 | |
| 2-Butanone (MEK) | 0.125 | 0.103 | 82.5 | 37.0-159 | |
| Methylene Chloride | 0.0250 | 0.0243 | 97.1 | 67.0-123 | |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.0999 | 79.9 | 60.0-144 | |
| Methyl tert-butyl ether | 0.0250 | 0.0244 | 97.6 | 66.0-125 | |
| Naphthalene | 0.0250 | 0.0255 | 102 | 64.0-125 | |
| n-Propylbenzene | 0.0250 | 0.0253 | 101 | 78.0-120 | |
| Styrene | 0.0250 | 0.0254 | 101 | 78.0-124 | |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0255 | 102 | 74.0-124 | |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0252 | 101 | 73.0-120 | |
| Tetrachloroethene | 0.0250 | 0.0265 | 106 | 70.0-127 | |
| Toluene | 0.0250 | 0.0256 | 103 | 77.0-120 | |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0314 | 125 | 64.0-135 | |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0254 | 101 | 68.0-126 | |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0256 | 102 | 70.0-127 | |
| 1,1,1-Trichloroethane | 0.0250 | 0.0268 | 107 | 69.0-125 | |
| 1,1,2-Trichloroethane | 0.0250 | 0.0262 | 105 | 78.0-120 | |
| Trichloroethene | 0.0250 | 0.0250 | 99.9 | 79.0-120 | |
| Trichlorofluoromethane | 0.0250 | 0.0304 | 122 | 59.0-136 | |
| 1,2,3-Trichloropropane | 0.0250 | 0.0256 | 102 | 73.0-124 | |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0238 | 95.2 | 76.0-120 | |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0244 | 97.5 | 75.0-120 | |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0256 | 102 | 75.0-120 | |
| Vinyl chloride | 0.0250 | 0.0240 | 96.2 | 63.0-134 | |
| Xylenes, Total | 0.0750 | 0.0772 | 103 | 77.0-120 | |
| Vinyl acetate | 0.125 | 0.108 | 86.1 | 58.0-156 | |
| *(S) Toluene-d8* | | | *100* | *80.0-120* | |
| *(S) Dibromofluoromethane* | | | *101* | *74.0-131* | |
| *(S) 4-Bromofluorobenzene* | | | *91.3* | *64.0-132* | |

## Method Blank (MB)

(MB) R3252486-3 09/23/17 06:48

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3252486-3 09/23/17 06:48

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *89.9* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3252486-1 09/23/17 05:22 • (LCSD) R3252486-2 09/23/17 05:43

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 142 | 139 | 114 | 112 | 10.0-160 | | | 2.06 | 23 |
| Acrylonitrile | 125 | 132 | 131 | 105 | 105 | 60.0-142 | | | 0.800 | 20 |
| Benzene | 25.0 | 25.1 | 24.9 | 100 | 99.8 | 69.0-123 | | | 0.520 | 20 |
| Bromobenzene | 25.0 | 23.2 | 23.1 | 92.6 | 92.4 | 79.0-120 | | | 0.320 | 20 |
| Bromodichloromethane | 25.0 | 24.6 | 24.6 | 98.3 | 98.3 | 76.0-120 | | | 0.0300 | 20 |
| Bromochloromethane | 25.0 | 25.2 | 25.6 | 101 | 103 | 76.0-122 | | | 1.65 | 20 |
| Bromoform | 25.0 | 26.4 | 25.8 | 106 | 103 | 67.0-132 | | | 2.53 | 20 |
| Bromomethane | 25.0 | 26.6 | 27.1 | 106 | 108 | 18.0-160 | | | 2.00 | 20 |
| n-Butylbenzene | 25.0 | 24.6 | 25.4 | 98.5 | 102 | 72.0-126 | | | 2.98 | 20 |
| sec-Butylbenzene | 25.0 | 25.3 | 25.7 | 101 | 103 | 74.0-121 | | | 1.34 | 20 |
| tert-Butylbenzene | 25.0 | 24.6 | 25.1 | 98.3 | 100 | 75.0-122 | | | 2.00 | 20 |
| Carbon disulfide | 25.0 | 24.5 | 25.2 | 97.8 | 101 | 55.0-127 | | | 2.89 | 20 |
| Carbon tetrachloride | 25.0 | 25.8 | 25.4 | 103 | 102 | 63.0-122 | | | 1.67 | 20 |
| Chlorobenzene | 25.0 | 25.9 | 25.8 | 104 | 103 | 79.0-121 | | | 0.680 | 20 |
| Chlorodibromomethane | 25.0 | 27.2 | 27.5 | 109 | 110 | 75.0-125 | | | 1.15 | 20 |
| Chloroethane | 25.0 | 27.5 | 28.3 | 110 | 113 | 47.0-152 | | | 2.85 | 20 |
| Chloroform | 25.0 | 25.2 | 25.2 | 101 | 101 | 72.0-121 | | | 0.0600 | 20 |
| Chloromethane | 25.0 | 23.8 | 24.7 | 95.3 | 98.6 | 48.0-139 | | | 3.47 | 20 |
| 2-Chlorotoluene | 25.0 | 23.5 | 24.1 | 93.9 | 96.3 | 74.0-122 | | | 2.43 | 20 |
| 4-Chlorotoluene | 25.0 | 23.2 | 23.4 | 92.7 | 93.6 | 79.0-120 | | | 0.970 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 25.8 | 25.0 | 103 | 100 | 64.0-127 | | | 3.23 | 20 |
| 1,2-Dibromoethane | 25.0 | 26.3 | 25.8 | 105 | 103 | 77.0-123 | | | 1.92 | 20 |
| Dibromomethane | 25.0 | 25.7 | 25.4 | 103 | 102 | 78.0-120 | | | 0.850 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 25.2 | 25.4 | 101 | 101 | 80.0-120 | | | 0.510 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 24.4 | 24.7 | 97.8 | 98.8 | 72.0-123 | | | 1.07 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 24.5 | 24.8 | 98.1 | 99.3 | 77.0-120 | | | 1.20 | 20 |
| Dichlorodifluoromethane | 25.0 | 27.2 | 28.3 | 109 | 113 | 49.0-155 | | | 3.72 | 20 |
| 1,1-Dichloroethane | 25.0 | 24.9 | 25.0 | 99.4 | 100 | 70.0-126 | | | 0.520 | 20 |
| 1,2-Dichloroethane | 25.0 | 26.2 | 25.8 | 105 | 103 | 67.0-126 | | | 1.46 | 20 |
| 1,1-Dichloroethene | 25.0 | 24.7 | 24.9 | 98.9 | 99.7 | 64.0-129 | | | 0.770 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 24.6 | 24.9 | 98.6 | 99.7 | 73.0-120 | | | 1.13 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 24.7 | 25.4 | 98.7 | 102 | 71.0-121 | | | 2.82 | 20 |
| 1,2-Dichloropropane | 25.0 | 25.3 | 25.2 | 101 | 101 | 75.0-125 | | | 0.720 | 20 |
| 1,1-Dichloropropene | 25.0 | 25.6 | 25.7 | 102 | 103 | 71.0-129 | | | 0.450 | 20 |
| 1,3-Dichloropropane | 25.0 | 26.3 | 26.1 | 105 | 104 | 80.0-121 | | | 0.740 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 25.0 | 25.3 | 100 | 101 | 79.0-123 | | | 1.17 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 25.4 | 25.5 | 101 | 102 | 74.0-127 | | | 0.460 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 19.8 | 20.1 | 79.3 | 80.3 | 55.0-134 | | | 1.27 | 20 |
| 2,2-Dichloropropane | 25.0 | 21.1 | 22.6 | 84.4 | 90.3 | 60.0-125 | | | 6.75 | 20 |
| Di-isopropyl ether | 25.0 | 24.2 | 24.5 | 96.9 | 98.1 | 59.0-133 | | | 1.23 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3252486-1 09/23/17 05:22 • (LCSD) R3252486-2 09/23/17 05:43

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 25.1 | 25.3 | 100 | 101 | 77.0-120 | | | 1.07 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 23.7 | 25.8 | 94.8 | 103 | 64.0-131 | | | 8.50 | 20 |
| 2-Hexanone | 125 | 141 | 137 | 113 | 110 | 58.0-147 | | | 3.11 | 20 |
| n-Hexane | 25.0 | 23.1 | 23.2 | 92.3 | 92.9 | 56.0-124 | | | 0.660 | 20 |
| Iodomethane | 125 | 124 | 127 | 99.3 | 102 | 57.0-140 | | | 2.29 | 20 |
| Isopropylbenzene | 25.0 | 23.6 | 24.2 | 94.5 | 96.7 | 75.0-120 | | | 2.33 | 20 |
| p-Isopropyltoluene | 25.0 | 25.5 | 25.9 | 102 | 104 | 74.0-126 | | | 1.75 | 20 |
| 2-Butanone (MEK) | 125 | 124 | 121 | 99.6 | 97.0 | 37.0-158 | | | 2.57 | 20 |
| Methylene Chloride | 25.0 | 24.2 | 24.6 | 96.7 | 98.2 | 66.0-121 | | | 1.58 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 128 | 124 | 102 | 99.0 | 59.0-143 | | | 3.02 | 20 |
| Methyl tert-butyl ether | 25.0 | 25.5 | 25.5 | 102 | 102 | 64.0-123 | | | 0.250 | 20 |
| Naphthalene | 25.0 | 23.9 | 25.1 | 95.7 | 100 | 62.0-128 | | | 4.57 | 20 |
| n-Propylbenzene | 25.0 | 23.4 | 23.8 | 93.5 | 95.2 | 79.0-120 | | | 1.84 | 20 |
| Styrene | 25.0 | 23.5 | 23.7 | 94.0 | 94.9 | 78.0-124 | | | 1.03 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 26.3 | 26.4 | 105 | 105 | 75.0-122 | | | 0.310 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 23.1 | 22.3 | 92.2 | 89.1 | 71.0-122 | | | 3.45 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 26.0 | 26.2 | 104 | 105 | 61.0-136 | | | 0.790 | 20 |
| Tetrachloroethene | 25.0 | 25.4 | 25.7 | 102 | 103 | 70.0-127 | | | 1.04 | 20 |
| Toluene | 25.0 | 24.7 | 25.0 | 98.8 | 100 | 77.0-120 | | | 1.29 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 24.3 | 25.8 | 97.1 | 103 | 61.0-133 | | | 5.91 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 23.6 | 24.9 | 94.4 | 99.7 | 69.0-129 | | | 5.53 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 25.8 | 25.9 | 103 | 104 | 68.0-122 | | | 0.420 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 25.5 | 25.6 | 102 | 102 | 78.0-120 | | | 0.190 | 20 |
| Trichloroethene | 25.0 | 26.2 | 26.9 | 105 | 107 | 78.0-120 | | | 2.52 | 20 |
| Trichlorofluoromethane | 25.0 | 26.3 | 27.2 | 105 | 109 | 56.0-137 | | | 3.51 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 24.5 | 23.9 | 98.2 | 95.5 | 72.0-124 | | | 2.78 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 23.5 | 24.0 | 94.1 | 95.8 | 75.0-120 | | | 1.76 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 25.3 | 25.6 | 101 | 103 | 75.0-120 | | | 1.10 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 23.6 | 24.3 | 94.5 | 97.1 | 75.0-120 | | | 2.70 | 20 |
| Vinyl acetate | 125 | 103 | 86.3 | 82.6 | 69.0 | 46.0-160 | | | 17.9 | 20 |
| Vinyl chloride | 25.0 | 28.1 | 28.1 | 113 | 113 | 64.0-133 | | | 0.0300 | 20 |
| Xylenes, Total | 75.0 | 76.0 | 76.4 | 101 | 102 | 77.0-120 | | | 0.530 | 20 |
| *(S) Toluene-d8* | | | | *102* | *103* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *100* | *101* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *92.7* | *93.9* | *80.0-120* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| V3 | The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected. |

# ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.



## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

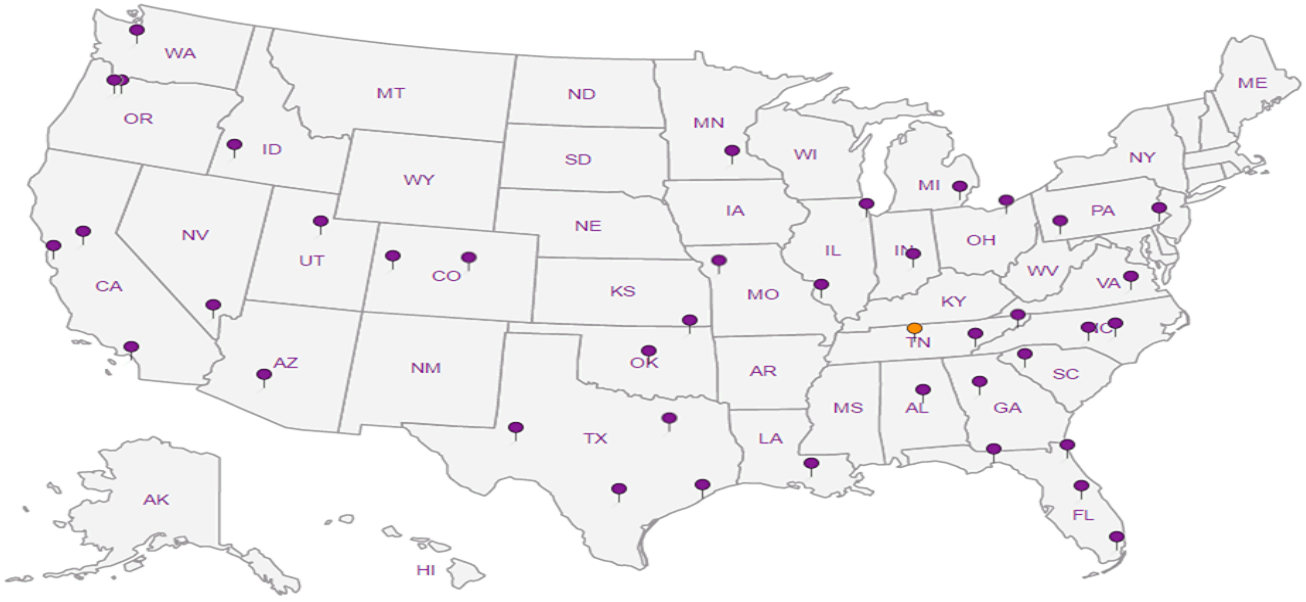
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report to: Bill Haldeman

Billing Information: Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # A13.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON McKERNAN

Site/Facility ID # A13.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LAB SCIENCES
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 938165
H191

Acctnum: PESENVSWA
Template: T127855
Prelogin: P618512
TSR: 110 - Brian Ford
PB:
Shipped Via:

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres | NWTPHGX 40ml/NaHS04/Syr/MeOH | VOC 8260C 2ozClr-NoPres | VOC 8260C 40ml/NaHS04/Syr/MeOH | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-218-10 | GRAB | SS | 10 | 9/19/17 | 1455 | 5 | X | | | X | HOLD | - |
| B-218-12.5 | | SS | 12.5 | | 1500 | 5 | X | | | X | | 01 |
| B-218-19 | | SS | 19 | | 1510 | 5 | X | | | X | | 02 |
| B-218-25 | | SS | 25 | | 1520 | 5 | X | | | X | | 03 |
| B-218-40 | | SS | 40 | | 1545 | 5 | X | | | X | | 04 |
| B-218-50 | | SS | 50 | ↓ | 1615 | 5 | X | | | X | | 05 |
| B-220-15 | | SS | 15 | 9/20/17 | 0950 | 5 | X | | | X | | 06 |
| B-220-29 | | SS | 29 | | 1010 | 5 | X | | | X | | 07 |
| B-220-32 | | SS | 32 | | 1030 | 5 | X | | | X | | 08 |
| B-220-40 | ↓ | SS | 40 | ↓ | 1040 | 5 | X | | | X | | 09 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ___ Temp ___
Flow ___ Other ___

Samples returned via: ___ UPS X FedEx ___ Courier ___

Tracking # 7474 0921 0296

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| | 9/20/17 | 1345 | | 1 |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: 4.1 °C Bottles Received: 65 |
| | | | | If preservation required by Login: Date/Time |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 9.21.17 Time: 8:45 |
| | | | | 09-115 |

Condition: NCF / OK

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # K413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON McKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres TS | NWTPHGX 40ml/NaHSO4/Syr/MeOH | VOC 8260C 2ozClr-NoPres 40 ml | VOC 8260C 40ml/NaHSO4/Syr/MeOH | | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-913-70 | GRAB | SS | 70 | 09/19/17 | 1535 | 5 | X | | | X | | | | | | -10 | | -10 |
| B-914-75 | ↓ | SS | 75 | 9/20/17 | 1055 | 5 | X | | | X | | | | | | -11 | | -11 |
| B-220-50 | ↓ | SS | 50 | ↓ | 1115 | 5 | X | | | X | | | | | | -12 | | -12 |
| TRIP BLANK-092017 | NA | NA ~~SS~~ | NA | 5/15/17 | NA | 1 | | | X | | | | | | | -13 | | 13 |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |

Chain of Custody Page 2 of 2

ESC LAB SCIENCES
a subsidiary of Accutest

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 938165

Table #

Acctnum: PESENVSWA
Template: T127855
Prelogin: P618512
TSR: 110 - Brian Ford
PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier _____

Tracking # 7474 0921 0296

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| | 9/20/17 | 1345 | | 1 |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: 4.1 °C Bottles Received: 65 |
| | | | | If preservation required by Login: Date/Time |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 9.21.17 Time: 8:45 |
| | | | Jennifer Floyd | Hold: Condition: NCF / OK |

# MEMORANDUM

**TO:** Project File **DATE:** October 17, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** September 19-20, 2017 – Soil Samples

**LAB:** ESC Lab ID L938165

---

Thirteen (13) soil samples including two field duplicates, and a trip blank were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 19-20, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. One soil sample was placed on hold. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C; and
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L938165. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L938165 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on September 19-20, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 4.1 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for carbon disulfide, chloromethane, dichlorodifluoromethane, and trans-1,4-dichloro-2-butene associated with analytical batch WG1023237 (analyzed on September 22, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, carbon disulfide, chloromethane, dichlorodifluoromethane, and trans-1,4-dichloro-2-butene associated with analytical batch WG1023237 (analyzed on September 22, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at or above the reported detection limits (RDLs).

*Total Solids by SM 2540 G 2011:*
Laboratory method blank was included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was collected and submitted for VOC analysis. The target analytes were not detected in the trip blank at or above the RDL.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Two sets of field duplicate (samples B-218-50/ B-913-70 and samples B-220-50/ B-914-75) results are comparable for VOCs and less than 30% RPD with the following exceptions:

- Field duplicate sample pair (B-218-50 and B-913-70) RPDs are greater than 30% for cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride. **Sample field duplicate (B-218-50 and B-913-70) results for cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride are estimated and qualified (J) due to poor field precision.**

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on two client samples B-218-19 and B-220-29. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS and LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS and LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters with the following exception:

- LCS (Batch WG1023237 for soils) % recovery for trans-1,4-dichloro-2-butene is low, below laboratory criteria, and qualified by the laboratory (J4). **All associated results for trans-1,4-dichloro-2-butene are estimated and qualified (UJ) due to the low LCS recovery and CCV recovery outside of acceptance limits.**

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD results for more information.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following exception:

- Sample B-218-19 VOC results are footnoted to indicate that there is an elevated reporting limit for trichloroethene because ESC used up all of the low level sodium bisulfite preserved vials (no stir bars) and used a methanol preserved vial to analyze for trichloroethene. No action was taken other than to note this.

- One of the VOC internal standards for sample B-220-29 exhibited poor recovery due to sample matrix interference. Associated analytical results are biased high and qualified by the laboratory (V3). ESC indicated that results below the detection limit (BDL), the method detection limit, are unaffected. **Sample B-220-29 results for acetone, carbon disulfide, chloroform, 1,1-dichloroethene, trans-1,2-dichloroethene, 2-butanone (MEK), 1,2,4-trimethylbenzene, and vinyl chloride are estimated with high bias and qualified (J+).**

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.8 | | 1 | 09/25/2017 09:59 | WG1024190 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0569 | 1 | 09/22/2017 02:30 | WG1023237 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Benzene | U | | 0.000307 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Bromobenzene | U | | 0.000323 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Bromodichloromethane | U | | 0.000289 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Bromochloromethane | U | | 0.000444 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| Bromoform | U | | 0.000483 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Bromomethane | U | | 0.00153 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Carbon disulfide | U | UJ J0 | 0.000252 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Carbon tetrachloride | U | | 0.000373 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Chlorobenzene | U | | 0.000241 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Chlorodibromomethane | U | | 0.000425 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Chloroethane | U | | 0.00108 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| Chloroform | U | | 0.000261 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| Chloromethane | U | UJ J0 | 0.000427 | 0.00285 | 1 | 09/22/2017 02:30 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000273 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Dibromomethane | U | | 0.000435 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000272 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Dichlorodifluoromethane | U | UJ J0 | 0.000812 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1-Dichloroethene | 0.0131 | | 0.000345 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| cis-1,2-Dichloroethene | 2.16 | | 0.0268 | 0.114 | 100 | 09/27/2017 14:23 | WG1023237 |
| trans-1,2-Dichloroethene | 0.0171 | | 0.000301 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000408 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000361 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000298 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000304 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | UJ J0 J4 | 0.000886 | 0.00285 | 1 | 09/22/2017 02:30 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Di-isopropyl ether | U | | 0.000282 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Ethylbenzene | U | | 0.000338 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000389 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |
| n-Hexane | U | | 0.000330 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Iodomethane | U | | 0.00288 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00533 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Methylene Chloride | U | | 0.00114 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000241 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Naphthalene | U | | 0.00114 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Styrene | U | | 0.000266 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000416 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000416 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Tetrachloroethene | 0.0438 | | 0.000314 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Toluene | U | | 0.000494 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000442 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000315 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Trichloroethene | 0.775 | | 0.0318 | 0.114 | 100 | 09/27/2017 14:23 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000435 | 0.00569 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000844 | 0.00285 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000240 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000327 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000303 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Vinyl acetate | U | | 0.00272 | 0.0114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Vinyl chloride | 0.0281 | | 0.000331 | 0.00114 | 1 | 09/22/2017 02:30 | WG1023237 |
| Xylenes, Total | U | | 0.000795 | 0.00342 | 1 | 09/22/2017 02:30 | WG1023237 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/22/2017 02:30* | WG1023237 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *09/27/2017 14:23* | WG1023237 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/22/2017 02:30* | WG1023237 |
| *(S) Dibromofluoromethane* | *90.8* | | | *74.0-131* | | *09/27/2017 14:23* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/22/2017 02:30* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *94.1* | | | *64.0-132* | | *09/27/2017 14:23* | WG1023237 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.1 | | 1 | 09/25/2017 09:59 | WG1024190 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0568 | 1 | 09/22/2017 02:50 | WG1023237 |
| Acrylonitrile | U | | 0.00203 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Benzene | U | | 0.000306 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Bromobenzene | U | | 0.000322 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Bromodichloromethane | U | | 0.000288 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Bromochloromethane | U | | 0.000443 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| Bromoform | U | | 0.000481 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Bromomethane | U | | 0.00152 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| n-Butylbenzene | U | | 0.000293 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| sec-Butylbenzene | U | | 0.000228 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| tert-Butylbenzene | U | | 0.000234 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Carbon disulfide | U UJ | J0 | 0.000251 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Carbon tetrachloride | U | | 0.000372 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Chlorobenzene | U | | 0.000241 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Chlorodibromomethane | U | | 0.000423 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Chloroethane | 0.00550 J | J | 0.00107 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| Chloroform | U | | 0.000260 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| Chloromethane | U UJ | J0 | 0.000426 | 0.00284 | 1 | 09/22/2017 02:50 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000342 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000272 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000389 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Dibromomethane | U | | 0.000434 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000346 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000271 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000809 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000226 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000301 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1-Dichloroethene | 0.000759 J | J | 0.000344 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| cis-1,2-Dichloroethene | 0.123 | | 0.000267 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| trans-1,2-Dichloroethene | 0.00346 | | 0.000300 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000406 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000360 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000235 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000297 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000303 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000883 | 0.00284 | 1 | 09/22/2017 02:50 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000317 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Di-isopropyl ether | U | | 0.000281 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Ethylbenzene | U | | 0.000337 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000388 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 2-Hexanone | U | | 0.00155 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |
| n-Hexane | U | | 0.000329 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Iodomethane | U | | 0.00287 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Isopropylbenzene | U | | 0.000276 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00531 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Methylene Chloride | U | | 0.00114 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00213 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000241 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Naphthalene | U | | 0.00114 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| n-Propylbenzene | U | | 0.000234 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Styrene | U | | 0.000266 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000300 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000414 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000414 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Tetrachloroethene | 0.000476 J | J | 0.000313 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Toluene | U | | 0.000493 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000440 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000325 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000314 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Trichloroethene | 0.00946 J | J | 0.00910 | 0.0326 | 28.75 | 09/28/2017 13:33 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000434 | 0.00568 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000841 | 0.00284 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000239 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000326 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000302 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Vinyl acetate | U | | 0.00271 | 0.0114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Vinyl chloride | 0.0286 | | 0.000330 | 0.00114 | 1 | 09/22/2017 02:50 | WG1023237 |
| Xylenes, Total | U | | 0.000792 | 0.00341 | 1 | 09/22/2017 02:50 | WG1023237 |
| *(S) Toluene-d8* | *99.3* | | | *80.0-120* | | *09/22/2017 02:50* | WG1023237 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/28/2017 13:33* | WG1023237 |
| *(S) Dibromofluoromethane* | *94.2* | | | *74.0-131* | | *09/28/2017 13:33* | WG1023237 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/22/2017 02:50* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *96.8* | | | *64.0-132* | | *09/28/2017 13:33* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/22/2017 02:50* | WG1023237 |

**Sample Narrative:**

L938165-02 WG1023237: No more stir bars left to run

JC 10/17/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.4 | | 1 | 09/25/2017 09:59 | WG1024190 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0579 | 1 | 09/22/2017 03:10 | WG1023237 |
| Acrylonitrile | U | | 0.00207 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Benzene | U | | 0.000313 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Bromobenzene | U | | 0.000329 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Bromochloromethane | U | | 0.000452 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| Bromoform | U | | 0.000491 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Bromomethane | U | | 0.00155 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| n-Butylbenzene | U | | 0.000299 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Carbon disulfide | U | UJ J0 | 0.000256 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Carbon tetrachloride | U | | 0.000380 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Chlorobenzene | U | | 0.000245 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Chlorodibromomethane | U | | 0.000432 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Chloroethane | 0.00115 | J J | 0.00110 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| Chloroform | U | | 0.000265 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| Chloromethane | U | UJ J0 | 0.000434 | 0.00289 | 1 | 09/22/2017 03:10 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000278 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000397 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Dibromomethane | U | | 0.000442 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000277 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Dichlorodifluoromethane | U | UJ J0 | 0.000826 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000307 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1-Dichloroethene | 0.000798 | J J | 0.000351 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| cis-1,2-Dichloroethene | 0.0781 | | 0.000272 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| trans-1,2-Dichloroethene | 0.00124 | | 0.000306 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000415 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000367 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000303 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | UJ J0 J4 | 0.000901 | 0.00289 | 1 | 09/22/2017 03:10 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000323 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Di-isopropyl ether | U | | 0.000287 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Ethylbenzene | U | | 0.000344 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000396 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |
| n-Hexane | U | | 0.000336 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Iodomethane | U | | 0.00293 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Isopropylbenzene | U | | 0.000281 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00542 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Methylene Chloride | U | | 0.00116 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000245 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Naphthalene | U | | 0.00116 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Styrene | U | | 0.000271 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000306 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000423 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000423 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Tetrachloroethene | 0.0104 | | 0.000320 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Toluene | U | | 0.000503 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000449 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000321 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Trichloroethene | 0.0144 | | 0.000323 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000442 | 0.00579 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000858 | 0.00289 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000332 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000308 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Vinyl acetate | U | | 0.00277 | 0.0116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Vinyl chloride | 0.0449 | | 0.000337 | 0.00116 | 1 | 09/22/2017 03:10 | WG1023237 |
| Xylenes, Total | U | | 0.000808 | 0.00347 | 1 | 09/22/2017 03:10 | WG1023237 |
| *(S) Toluene-d8* | *101* | | | *80.0-120* | | *09/22/2017 03:10* | WG1023237 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/22/2017 03:10* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/22/2017 03:10* | WG1023237 |



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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.1 | | 1 | 09/25/2017 09:59 | WG1024190 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.615 | 3.07 | 56 | 09/27/2017 14:42 | WG1023237 |
| Acrylonitrile | U | | 0.110 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Benzene | U | | 0.0166 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Bromobenzene | U | | 0.0175 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Bromodichloromethane | U | | 0.0156 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Bromochloromethane | U | | 0.0239 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| Bromoform | U | | 0.0260 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Bromomethane | U | | 0.0823 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| n-Butylbenzene | U | | 0.0158 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| sec-Butylbenzene | U | | 0.0123 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| tert-Butylbenzene | U | | 0.0126 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Carbon disulfide | U | | 0.0136 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Carbon tetrachloride | U | | 0.0202 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Chlorobenzene | U | | 0.0131 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Chlorodibromomethane | U | | 0.0229 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Chloroethane | U | | 0.0582 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| Chloroform | U | | 0.0141 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| Chloromethane | U | | 0.0231 | 0.154 | 56 | 09/27/2017 14:42 | WG1023237 |
| 2-Chlorotoluene | U | | 0.0184 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 4-Chlorotoluene | U | | 0.0147 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0646 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.0211 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Dibromomethane | U | | 0.0235 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.0188 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.0147 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.0138 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Dichlorodifluoromethane | U | | 0.0438 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.0122 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.0162 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1-Dichloroethene | U | | 0.0187 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| cis-1,2-Dichloroethene | 5.25 | | 0.0145 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| trans-1,2-Dichloroethene | 0.0724 | | 0.0162 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.0220 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.0195 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.0127 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.0161 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.0165 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | UJ J4 | 0.0479 | 0.154 | 56 | 09/27/2017 14:42 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.0171 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Di-isopropyl ether | U | | 0.0153 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Ethylbenzene | U | | 0.0182 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.0211 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 2-Hexanone | U | | 0.0842 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |
| n-Hexane | U | | 0.0178 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Iodomethane | U | | 0.156 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Isopropylbenzene | U | | 0.0149 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| p-Isopropyltoluene | U | | 0.0125 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.288 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Methylene Chloride | U | | 0.0615 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.115 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0131 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Naphthalene | U | | 0.0615 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| n-Propylbenzene | U | | 0.0126 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Styrene | U | | 0.0144 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0162 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0224 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0224 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Tetrachloroethene | 0.421 | | 0.0169 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Toluene | U | | 0.0267 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.0188 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.0238 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.0176 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.0170 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Trichloroethene | 0.255 | | 0.0171 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Trichlorofluoromethane | U | | 0.0235 | 0.307 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.0456 | 0.154 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.0130 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.0177 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.0164 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Vinyl acetate | U | | 0.147 | 0.615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Vinyl chloride | 0.271 | | 0.0179 | 0.0615 | 56 | 09/27/2017 14:42 | WG1023237 |
| Xylenes, Total | U | | 0.0429 | 0.184 | 56 | 09/27/2017 14:42 | WG1023237 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/27/2017 14:42* | WG1023237 |
| *(S) Dibromofluoromethane* | *94.7* | | | *74.0-131* | | *09/27/2017 14:42* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *97.5* | | | *64.0-132* | | *09/27/2017 14:42* | WG1023237 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.8 | | 1 | 09/25/2017 09:59 | WG1024190 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0173 J | J J0 | 0.0107 | 0.0533 | 1 | 09/22/2017 03:49 | WG1023237 |
| Acrylonitrile | U | | 0.00191 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Benzene | U | | 0.000288 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Bromobenzene | U | | 0.000303 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Bromodichloromethane | U | | 0.000271 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Bromochloromethane | U | | 0.000416 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| Bromoform | U | | 0.000452 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Bromomethane | U | | 0.00143 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| n-Butylbenzene | U | | 0.000275 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| sec-Butylbenzene | U | | 0.000214 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| tert-Butylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Carbon disulfide | 0.00186 J | J0 | 0.000236 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Carbon tetrachloride | U | | 0.000350 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Chlorobenzene | U | | 0.000226 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Chlorodibromomethane | U | | 0.000398 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Chloroethane | U | | 0.00101 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| Chloroform | U | | 0.000244 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| Chloromethane | U UJ | J0 | 0.000400 | 0.00267 | 1 | 09/22/2017 03:49 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000321 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000256 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00112 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000366 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Dibromomethane | U | | 0.000407 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000325 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000255 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000241 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000760 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000212 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000283 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1-Dichloroethene | 0.00704 | | 0.000323 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| cis-1,2-Dichloroethene | 3.19 J | | 0.0501 | 0.213 | 200 | 09/27/2017 15:02 | WG1023237 |
| trans-1,2-Dichloroethene | 0.0173 | | 0.000281 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000382 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000338 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000221 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000279 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000285 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000830 | 0.00267 | 1 | 09/22/2017 03:49 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000297 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Di-isopropyl ether | U | | 0.000264 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Ethylbenzene | U | | 0.000317 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000365 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 2-Hexanone | U | | 0.00146 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |
| n-Hexane | U | | 0.000309 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Iodomethane | U | | 0.00270 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Isopropylbenzene | U | | 0.000259 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000218 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00499 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Methylene Chloride | U | | 0.00107 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000226 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Naphthalene | U | | 0.00107 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| n-Propylbenzene | U | | 0.000220 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Styrene | U | | 0.000250 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000281 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000389 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000389 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Tetrachloroethene | 2.01 | J | 0.0589 | 0.213 | 200 | 09/27/2017 15:02 | WG1023237 |
| Toluene | U | | 0.000463 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000326 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000414 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000305 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000295 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Trichloroethene | 0.953 | J | 0.0595 | 0.213 | 200 | 09/27/2017 15:02 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000407 | 0.00533 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000790 | 0.00267 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000225 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000306 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000284 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Vinyl acetate | U | | 0.00255 | 0.0107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Vinyl chloride | 0.0144 | J | 0.000310 | 0.00107 | 1 | 09/22/2017 03:49 | WG1023237 |
| Xylenes, Total | U | | 0.000744 | 0.00320 | 1 | 09/22/2017 03:49 | WG1023237 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/22/2017 03:49* | WG1023237 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/27/2017 15:02* | WG1023237 |
| *(S) Dibromofluoromethane* | *97.9* | | | *74.0-131* | | *09/27/2017 15:02* | WG1023237 |
| *(S) Dibromofluoromethane* | *105* | | | *74.0-131* | | *09/22/2017 03:49* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *64.0-132* | | *09/22/2017 03:49* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *64.0-132* | | *09/27/2017 15:02* | WG1023237 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.9 | | 1 | 09/23/2017 09:21 | WG1023495 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0569 | 1 | 09/22/2017 04:09 | WG1023237 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Benzene | U | | 0.000307 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Bromobenzene | U | | 0.000323 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Bromodichloromethane | U | | 0.000289 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Bromochloromethane | U | | 0.000443 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| Bromoform | U | | 0.000482 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Bromomethane | U | | 0.00152 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| n-Butylbenzene | U | | 0.000293 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| tert-Butylbenzene | U | | 0.000234 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Carbon disulfide | U | UJ J0 | 0.000251 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Carbon tetrachloride | U | | 0.000373 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Chlorobenzene | U | | 0.000241 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Chlorodibromomethane | U | | 0.000424 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Chloroethane | U | | 0.00108 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| Chloroform | U | | 0.000260 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| Chloromethane | U | UJ J0 | 0.000426 | 0.00284 | 1 | 09/22/2017 04:09 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000342 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000273 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000390 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Dibromomethane | U | | 0.000434 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000272 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Dichlorodifluoromethane | U | UJ J0 | 0.000811 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000226 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000301 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1-Dichloroethene | 0.000875 | J J | 0.000345 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| cis-1,2-Dichloroethene | 0.576 | | 0.00669 | 0.0284 | 25 | 09/27/2017 15:22 | WG1023237 |
| trans-1,2-Dichloroethene | 0.00163 | | 0.000300 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000407 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000360 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000235 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000298 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000304 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | UJ J0 J4 | 0.000885 | 0.00284 | 1 | 09/22/2017 04:09 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000317 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Di-isopropyl ether | U | | 0.000282 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Ethylbenzene | U | | 0.000338 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000389 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |
| n-Hexane | U | | 0.000330 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Iodomethane | U | | 0.00288 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Isopropylbenzene | U | | 0.000276 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00532 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Methylene Chloride | U | | 0.00114 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000241 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Naphthalene | U | | 0.00114 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| n-Propylbenzene | U | | 0.000234 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Styrene | U | | 0.000266 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000300 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000415 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000415 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Tetrachloroethene | 0.0351 | | 0.000314 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Toluene | U | | 0.000493 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000441 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000325 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000315 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Trichloroethene | 0.0526 | | 0.000317 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000434 | 0.00569 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000843 | 0.00284 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000240 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000326 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000302 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Vinyl acetate | U | | 0.00272 | 0.0114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Vinyl chloride | 0.0771 | | 0.000331 | 0.00114 | 1 | 09/22/2017 04:09 | WG1023237 |
| Xylenes, Total | U | | 0.000794 | 0.00341 | 1 | 09/22/2017 04:09 | WG1023237 |
| *(S) Toluene-d8* | *98.6* | | | *80.0-120* | | *09/22/2017 04:09* | WG1023237 |
| *(S) Toluene-d8* | *112* | | | *80.0-120* | | *09/27/2017 15:22* | WG1023237 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/22/2017 04:09* | WG1023237 |
| *(S) Dibromofluoromethane* | *96.2* | | | *74.0-131* | | *09/27/2017 15:22* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *09/27/2017 15:22* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *98.9* | | | *64.0-132* | | *09/22/2017 04:09* | WG1023237 |



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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.0 | | 1 | 09/23/2017 09:21 | WG1023495 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0387 J+ | J J0 V3 | 0.0116 | 0.0581 | 1 | 09/22/2017 04:28 | WG1023237 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Benzene | U | | 0.000314 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Bromochloromethane | U | | 0.000453 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| Bromoform | U | | 0.000493 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Bromomethane | U | | 0.00156 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| n-Butylbenzene | U | | 0.000300 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| sec-Butylbenzene | U | | 0.000234 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Carbon disulfide | 0.000360 J+ | J J0 V3 | 0.000257 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Chlorodibromomethane | U | | 0.000434 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Chloroethane | U | | 0.00110 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| Chloroform | 0.000671 J+ | J V3 | 0.000266 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| Chloromethane | U UJ | J0 | 0.000436 | 0.00291 | 1 | 09/22/2017 04:28 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000350 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000399 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Dibromomethane | U | | 0.000444 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000278 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000263 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000829 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000308 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1-Dichloroethene | 0.00352 J+ | V3 | 0.000352 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| cis-1,2-Dichloroethene | 2.13 | | 0.273 | 1.16 | 1000 | 09/27/2017 15:42 | WG1023237 |
| trans-1,2-Dichloroethene | 0.00550 J+ | V3 | 0.000307 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000241 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000305 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000904 | 0.00291 | 1 | 09/22/2017 04:28 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |
| n-Hexane | U | | 0.000337 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 2-Butanone (MEK) | 0.00592 J+ | J V3 | 0.00544 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Methylene Chloride | U | | 0.00116 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00219 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Naphthalene | U | | 0.00116 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000307 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Tetrachloroethene | 14.0 | | 0.321 | 1.16 | 1000 | 09/27/2017 15:42 | WG1023237 |
| Toluene | 0.000672 J+ | J | 0.000504 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000356 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000451 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Trichloroethene | 1.74 | | 0.324 | 1.16 | 1000 | 09/27/2017 15:42 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000444 | 0.00581 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000861 | 0.00291 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2,4-Trimethylbenzene | 0.000401 J+ | J V3 | 0.000245 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000334 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Vinyl acetate | U | | 0.00278 | 0.0116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Vinyl chloride | 0.0490 J+ | V3 | 0.000338 | 0.00116 | 1 | 09/22/2017 04:28 | WG1023237 |
| Xylenes, Total | U | | 0.000811 | 0.00349 | 1 | 09/22/2017 04:28 | WG1023237 |
| *(S) Toluene-d8* | *91.0* | | | *80.0-120* | | *09/22/2017 04:28* | WG1023237 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *09/27/2017 15:42* | WG1023237 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/27/2017 15:42* | WG1023237 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/22/2017 04:28* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/22/2017 04:28* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *09/27/2017 15:42* | WG1023237 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.7 | | 1 | 09/23/2017 09:21 | WG1023495 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0570 | 1 | 09/22/2017 04:48 | WG1023237 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Bromobenzene | U | | 0.000324 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Bromodichloromethane | U | | 0.000290 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Bromochloromethane | U | | 0.000445 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| Bromoform | U | | 0.000484 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Bromomethane | U | | 0.00153 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Carbon disulfide | U | UJ J0 | 0.000252 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Carbon tetrachloride | U | | 0.000374 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Chlorobenzene | U | | 0.000242 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Chlorodibromomethane | U | | 0.000426 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Chloroethane | 0.00202 | J J | 0.00108 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| Chloroform | U | | 0.000261 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| Chloromethane | U | UJ J0 | 0.000428 | 0.00285 | 1 | 09/22/2017 04:48 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000274 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Dibromomethane | U | | 0.000436 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000348 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000273 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000258 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Dichlorodifluoromethane | U | UJ J0 | 0.000813 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1-Dichloroethene | 0.00451 | | 0.000346 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| cis-1,2-Dichloroethene | 1.55 | | 0.268 | 1.14 | 1000 | 09/27/2017 16:01 | WG1023237 |
| trans-1,2-Dichloroethene | 0.00784 | | 0.000301 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000408 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000362 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000299 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000305 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | UJ J0 J4 | 0.000888 | 0.00285 | 1 | 09/22/2017 04:48 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Di-isopropyl ether | U | | 0.000283 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Ethylbenzene | U | | 0.000339 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000390 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |
| n-Hexane | U | | 0.000331 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Iodomethane | U | | 0.00289 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000233 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00534 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Methylene Chloride | U | | 0.00114 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000242 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Naphthalene | U | | 0.00114 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000416 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000416 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Tetrachloroethene | 6.52 | | 0.315 | 1.14 | 1000 | 09/27/2017 16:01 | WG1023237 |
| Toluene | U | | 0.000495 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000443 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000316 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Trichloroethene | 0.692 J | J | 0.318 | 1.14 | 1000 | 09/27/2017 16:01 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000436 | 0.00570 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000845 | 0.00285 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2,4-Trimethylbenzene | 0.000410 J | J | 0.000241 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000327 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000303 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Vinyl acetate | U | | 0.00273 | 0.0114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Vinyl chloride | 0.143 | | 0.000332 | 0.00114 | 1 | 09/22/2017 04:48 | WG1023237 |
| Xylenes, Total | U | | 0.000796 | 0.00342 | 1 | 09/22/2017 04:48 | WG1023237 |
| *(S) Toluene-d8* | *95.7* | | | *80.0-120* | | *09/22/2017 04:48* | WG1023237 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/27/2017 16:01* | WG1023237 |
| *(S) Dibromofluoromethane* | *98.4* | | | *74.0-131* | | *09/27/2017 16:01* | WG1023237 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/22/2017 04:48* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/22/2017 04:48* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *98.8* | | | *64.0-132* | | *09/27/2017 16:01* | WG1023237 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.1 | | 1 | 09/23/2017 09:21 | WG1023495 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0111 | 0.0555 | 1 | 09/22/2017 05:07 | WG1023237 |
| Acrylonitrile | U | | 0.00199 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Benzene | U | | 0.000300 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Bromobenzene | U | | 0.000315 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Bromodichloromethane | U | | 0.000282 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Bromochloromethane | U | | 0.000433 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| Bromoform | U | | 0.000471 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Bromomethane | U | | 0.00149 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| n-Butylbenzene | U | | 0.000286 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| sec-Butylbenzene | U | | 0.000223 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| tert-Butylbenzene | U | | 0.000229 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Carbon disulfide | 0.00104 J | J J0 | 0.000245 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Carbon tetrachloride | U | | 0.000364 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Chlorobenzene | U | | 0.000235 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Chlorodibromomethane | U | | 0.000414 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Chloroethane | U | | 0.00105 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| Chloroform | U | | 0.000254 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| Chloromethane | U UJ | J0 | 0.000416 | 0.00278 | 1 | 09/22/2017 05:07 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000334 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000266 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00117 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000381 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Dibromomethane | U | | 0.000424 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000339 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000265 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000251 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000792 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000221 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000294 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1-Dichloroethene | 0.00259 | | 0.000336 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| cis-1,2-Dichloroethene | 2.73 | | 0.487 | 2.08 | 1870 | 09/27/2017 16:21 | WG1023237 |
| trans-1,2-Dichloroethene | 0.00562 | | 0.000293 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000397 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000352 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000230 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000291 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000296 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000864 | 0.00278 | 1 | 09/22/2017 05:07 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000310 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Di-isopropyl ether | U | | 0.000275 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Ethylbenzene | U | | 0.000330 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000380 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 2-Hexanone | U | | 0.00152 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |
| n-Hexane | U | | 0.000322 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Iodomethane | U | | 0.00281 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Isopropylbenzene | U | | 0.000270 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000226 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00520 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Methylene Chloride | U | | 0.00111 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00209 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000235 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Naphthalene | U | | 0.00111 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| n-Propylbenzene | U | | 0.000229 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Styrene | U | | 0.000260 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000293 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000405 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000405 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Tetrachloroethene | 38.9 | | 0.573 | 2.08 | 1870 | 09/27/2017 16:21 | WG1023237 |
| Toluene | U | | 0.000482 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000340 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000431 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000317 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000308 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Trichloroethene | 5.82 | | 0.579 | 2.08 | 1870 | 09/27/2017 16:21 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000424 | 0.00555 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000823 | 0.00278 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000234 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000319 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000295 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Vinyl acetate | U | | 0.00265 | 0.0111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Vinyl chloride | 0.132 | | 0.000323 | 0.00111 | 1 | 09/22/2017 05:07 | WG1023237 |
| Xylenes, Total | U | | 0.000775 | 0.00333 | 1 | 09/22/2017 05:07 | WG1023237 |
| *(S) Toluene-d8* | *95.1* | | | *80.0-120* | | *09/22/2017 05:07* | WG1023237 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/27/2017 16:21* | WG1023237 |
| *(S) Dibromofluoromethane* | *109* | | | *74.0-131* | | *09/22/2017 05:07* | WG1023237 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/27/2017 16:21* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/22/2017 05:07* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/27/2017 16:21* | WG1023237 |



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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.2 | | 1 | 09/25/2017 09:59 | WG1024190 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0106 | 0.0531 | 1 | 09/22/2017 05:26 | WG1023237 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Benzene | U | | 0.000287 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Bromobenzene | U | | 0.000302 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Bromodichloromethane | U | | 0.000270 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Bromochloromethane | U | | 0.000414 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| Bromoform | U | | 0.000450 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Bromomethane | U | | 0.00142 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| n-Butylbenzene | U | | 0.000274 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| sec-Butylbenzene | U | | 0.000213 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| tert-Butylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Carbon disulfide | 0.00221 | UJ J0 | 0.000235 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Carbon tetrachloride | U | | 0.000348 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Chlorobenzene | U | | 0.000225 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Chlorodibromomethane | U | | 0.000396 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Chloroethane | U | | 0.00100 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| Chloroform | U | | 0.000243 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| Chloromethane | U | UJ J0 | 0.000398 | 0.00265 | 1 | 09/22/2017 05:26 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000320 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000364 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Dibromomethane | U | | 0.000406 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000324 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000254 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000240 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Dichlorodifluoromethane | U | UJ J0 | 0.000757 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000211 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000281 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1-Dichloroethene | 0.00535 | | 0.000322 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| cis-1,2-Dichloroethene | 5.52 | J | 0.0249 | 0.106 | 100 | 09/27/2017 16:41 | WG1023237 |
| trans-1,2-Dichloroethene | 0.0127 | | 0.000280 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000380 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000337 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000278 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000283 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U | UJ J0 J4 | 0.000826 | 0.00265 | 1 | 09/22/2017 05:26 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000296 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Di-isopropyl ether | U | | 0.000263 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Ethylbenzene | U | | 0.000315 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000363 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 2-Hexanone | U | | 0.00145 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |
| n-Hexane | U | | 0.000308 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Iodomethane | U | | 0.00269 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Isopropylbenzene | U | | 0.000258 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000217 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00497 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Methylene Chloride | U | | 0.00106 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00200 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000225 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Naphthalene | U | | 0.00106 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| n-Propylbenzene | U | | 0.000219 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Styrene | U | | 0.000248 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000280 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000388 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000388 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Tetrachloroethene | 0.537 | J | 0.0293 | 0.106 | 100 | 09/27/2017 16:41 | WG1023237 |
| Toluene | U | | 0.000461 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000412 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000304 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000294 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Trichloroethene | 0.180 | J | 0.000296 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000406 | 0.00531 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000787 | 0.00265 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000224 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000305 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000282 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Vinyl acetate | U | | 0.00254 | 0.0106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Vinyl chloride | 0.00427 | J | 0.000309 | 0.00106 | 1 | 09/22/2017 05:26 | WG1023237 |
| Xylenes, Total | U | | 0.000741 | 0.00319 | 1 | 09/22/2017 05:26 | WG1023237 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *09/27/2017 16:41* | WG1023237 |
| *(S) Toluene-d8* | *98.8* | | | *80.0-120* | | *09/22/2017 05:26* | WG1023237 |
| *(S) Dibromofluoromethane* | *98.8* | | | *74.0-131* | | *09/27/2017 16:41* | WG1023237 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/22/2017 05:26* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/27/2017 16:41* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/22/2017 05:26* | WG1023237 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.0 | | 1 | 09/23/2017 09:21 | WG1023495 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0204 J | J J0 | 0.0108 | 0.0538 | 1 | 09/22/2017 05:46 | WG1023237 |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Benzene | U | | 0.000290 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Bromobenzene | U | | 0.000305 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Bromodichloromethane | U | | 0.000273 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Bromochloromethane | U | | 0.000419 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| Bromoform | U | | 0.000456 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Bromomethane | U | | 0.00144 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| n-Butylbenzene | U | | 0.000277 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| sec-Butylbenzene | U | | 0.000216 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| tert-Butylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Carbon disulfide | 0.00177 J | J0 | 0.000238 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Carbon tetrachloride | U | | 0.000353 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Chlorobenzene | U | | 0.000228 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Chlorodibromomethane | U | | 0.000401 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Chloroethane | U | | 0.00102 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| Chloroform | U | | 0.000246 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| Chloromethane | U UJ | J0 | 0.000403 | 0.00269 | 1 | 09/22/2017 05:46 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000324 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000258 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000369 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Dibromomethane | U | | 0.000411 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000767 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1-Dichloroethene | 0.00164 | | 0.000326 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| cis-1,2-Dichloroethene | 0.0913 | | 0.000253 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| trans-1,2-Dichloroethene | 0.000689 J | J | 0.000284 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000385 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000341 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000223 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000282 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000287 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000837 | 0.00269 | 1 | 09/22/2017 05:46 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Di-isopropyl ether | U | | 0.000267 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Ethylbenzene | U | | 0.000319 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000368 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 2-Hexanone | U | | 0.00147 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |
| n-Hexane | 0.00212 J | J | 0.000312 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Iodomethane | U | | 0.00272 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Isopropylbenzene | U | | 0.000261 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000219 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00503 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Methylene Chloride | U | | 0.00108 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Naphthalene | U | | 0.00108 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| n-Propylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Styrene | U | | 0.000252 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000393 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000393 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Tetrachloroethene | 15.5 | | 0.297 | 1.08 | 1000 | 09/27/2017 17:01 | WG1023237 |
| Toluene | U | | 0.000467 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000329 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000417 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000308 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Trichloroethene | 1.25 | | 0.300 | 1.08 | 1000 | 09/27/2017 17:01 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000411 | 0.00538 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000797 | 0.00269 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000309 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Vinyl acetate | U | | 0.00257 | 0.0108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Vinyl chloride | 0.00210 | | 0.000313 | 0.00108 | 1 | 09/22/2017 05:46 | WG1023237 |
| Xylenes, Total | U | | 0.000751 | 0.00323 | 1 | 09/22/2017 05:46 | WG1023237 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/27/2017 17:01* | WG1023237 |
| *(S) Toluene-d8* | *95.0* | | | *80.0-120* | | *09/22/2017 05:46* | WG1023237 |
| *(S) Dibromofluoromethane* | *98.9* | | | *74.0-131* | | *09/27/2017 17:01* | WG1023237 |
| *(S) Dibromofluoromethane* | *106* | | | *74.0-131* | | *09/22/2017 05:46* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/27/2017 17:01* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/22/2017 05:46* | WG1023237 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.0 | | 1 | 09/23/2017 09:21 | WG1023495 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0133 | J J0 | 0.0108 | 0.0538 | 1 | 09/22/2017 06:05 | WG1023237 |
| Acrylonitrile | U | | 0.00193 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Benzene | U | | 0.000290 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Bromobenzene | U | | 0.000305 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Bromodichloromethane | U | | 0.000273 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Bromochloromethane | U | | 0.000419 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| Bromoform | U | | 0.000456 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Bromomethane | U | | 0.00144 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| n-Butylbenzene | U | | 0.000277 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| sec-Butylbenzene | U | | 0.000216 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| tert-Butylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Carbon disulfide | 0.00188 J | J0 | 0.000238 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Carbon tetrachloride | U | | 0.000353 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Chlorobenzene | U | | 0.000228 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Chlorodibromomethane | U | | 0.000401 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Chloroethane | U | | 0.00102 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| Chloroform | U | | 0.000246 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| Chloromethane | U UJ | J0 | 0.000403 | 0.00269 | 1 | 09/22/2017 06:05 | WG1023237 |
| 2-Chlorotoluene | U | | 0.000324 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 4-Chlorotoluene | U | | 0.000258 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2-Dibromoethane | U | | 0.000369 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Dibromomethane | U | | 0.000411 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Dichlorodifluoromethane | U UJ | J0 | 0.000767 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1-Dichloroethene | 0.00161 | | 0.000326 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| cis-1,2-Dichloroethene | 0.0766 | | 0.000253 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| trans-1,2-Dichloroethene | 0.000658 J | J | 0.000284 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2-Dichloropropane | U | | 0.000385 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1-Dichloropropene | U | | 0.000341 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,3-Dichloropropane | U | | 0.000223 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| cis-1,3-Dichloropropene | U | | 0.000282 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| trans-1,3-Dichloropropene | U | | 0.000287 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.000837 | 0.00269 | 1 | 09/22/2017 06:05 | WG1023237 |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Di-isopropyl ether | U | | 0.000267 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Ethylbenzene | U | | 0.000319 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Hexachloro-1,3-butadiene | U | | 0.000368 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 2-Hexanone | U | | 0.00147 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |
| n-Hexane | 0.00215 J | J | 0.000312 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Iodomethane | U | | 0.00272 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Isopropylbenzene | U | | 0.000261 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| p-Isopropyltoluene | U | | 0.000219 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 2-Butanone (MEK) | U | | 0.00503 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Methylene Chloride | U | | 0.00108 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |

JC 10/17/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Naphthalene | U | | 0.00108 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| n-Propylbenzene | U | | 0.000222 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Styrene | U | | 0.000252 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000393 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000393 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Tetrachloroethene | 18.5 | | 0.297 | 1.08 | 1000 | 09/27/2017 17:20 | WG1023237 |
| Toluene | U | | 0.000467 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2,3-Trichlorobenzene | U | | 0.000329 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2,4-Trichlorobenzene | U | | 0.000417 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1,1-Trichloroethane | U | | 0.000308 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Trichloroethene | 2.03 | | 0.300 | 1.08 | 1000 | 09/27/2017 17:20 | WG1023237 |
| Trichlorofluoromethane | U | | 0.000411 | 0.00538 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2,3-Trichloropropane | U | | 0.000797 | 0.00269 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,2,3-Trimethylbenzene | U | | 0.000309 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Vinyl acetate | U | | 0.00257 | 0.0108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Vinyl chloride | 0.00191 | | 0.000313 | 0.00108 | 1 | 09/22/2017 06:05 | WG1023237 |
| Xylenes, Total | U | | 0.000751 | 0.00323 | 1 | 09/22/2017 06:05 | WG1023237 |
| *(S) Toluene-d8* | *94.7* | | | *80.0-120* | | *09/22/2017 06:05* | WG1023237 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/27/2017 17:20* | WG1023237 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *09/27/2017 17:20* | WG1023237 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/22/2017 06:05* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *64.0-132* | | *09/22/2017 06:05* | WG1023237 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *09/27/2017 17:20* | WG1023237 |

JC 10/17/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1.05 | 25.0 | 1 | 09/23/2017 08:34 | WG1023738 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/23/2017 08:34 | WG1023738 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.257 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/23/2017 08:34 | WG1023738 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |

JC 10/17/17

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/23/2017 08:34 | WG1023738 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/23/2017 08:34 | WG1023738 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/23/2017 08:34 | WG1023738 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/23/2017 08:34* | WG1023738 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *09/23/2017 08:34* | WG1023738 |
| *(S) 4-Bromofluorobenzene* | *89.7* | | | *80.0-120* | | *09/23/2017 08:34* | WG1023738 |

JC 10/17/17

# ANALYTICAL REPORT

October 03, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L938636 |
| Samples Received: | 09/22/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |
| Site: | 1413.001.02.602 |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-915-80 L938636-01 Solid

Collected by: Shannon McKernan | Collected date/time: 09/20/17 14:30 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024280 | 1 | 09/26/17 08:27 | 09/26/17 08:36 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1026247 | 100 | 09/20/17 14:30 | 10/01/17 15:02 | DWR |

## B-221-16 L938636-02 Solid

Collected by: Shannon McKernan | Collected date/time: 09/20/17 14:50 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024280 | 1 | 09/26/17 08:27 | 09/26/17 08:36 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1026247 | 25 | 09/20/17 14:50 | 10/01/17 14:42 | DWR |

## B-221-22 L938636-03 Solid

Collected by: Shannon McKernan | Collected date/time: 09/20/17 14:55 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024280 | 1 | 09/26/17 08:27 | 09/26/17 08:36 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1026247 | 1000 | 09/20/17 14:55 | 09/29/17 19:48 | ACG |

## B-221-33 L938636-04 Solid

Collected by: Shannon McKernan | Collected date/time: 09/20/17 15:15 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024280 | 1 | 09/26/17 08:27 | 09/26/17 08:36 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1026247 | 1000 | 09/20/17 15:15 | 09/29/17 20:08 | ACG |

## B-221-37 L938636-05 Solid

Collected by: Shannon McKernan | Collected date/time: 09/20/17 15:20 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024280 | 1 | 09/26/17 08:27 | 09/26/17 08:36 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1026247 | 200 | 09/20/17 15:20 | 10/01/17 15:21 | DWR |

## B-221-45 L938636-06 Solid

Collected by: Shannon McKernan | Collected date/time: 09/20/17 15:40 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024280 | 1 | 09/26/17 08:27 | 09/26/17 08:36 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1026247 | 10000 | 09/20/17 15:40 | 09/29/17 20:47 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1026247 | 200000 | 09/20/17 15:40 | 10/01/17 16:20 | DWR |

## B-221-50 L938636-07 Solid

Collected by: Shannon McKernan | Collected date/time: 09/20/17 15:45 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024280 | 1 | 09/26/17 08:27 | 09/26/17 08:36 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1026247 | 500 | 09/20/17 15:45 | 10/01/17 15:41 | DWR |

## MW-138-092117 L938636-08 GW

Collected by: Shannon McKernan | Collected date/time: 09/21/17 10:10 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1024796 | 1 | 09/27/17 19:54 | 09/27/17 19:54 | ACE |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024893 | 2 | 09/27/17 07:22 | 09/27/17 07:22 | ACG |

## B-221-60 L938636-09 Solid

Collected by: Shannon McKernan | Collected date/time: 09/20/17 17:20 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024280 | 1 | 09/26/17 08:27 | 09/26/17 08:36 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1026247 | 500 | 09/20/17 17:20 | 10/01/17 16:01 | DWR |

## B-221-70 L938636-10 Solid

Collected by: Shannon McKernan | Collected date/time: 09/21/17 08:50 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024280 | 1 | 09/26/17 08:27 | 09/26/17 08:36 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024032 | 1 | 09/21/17 08:50 | 09/24/17 06:30 | JHH |

## B-222-17 L938636-11 Solid

Collected by: Shannon McKernan | Collected date/time: 09/21/17 11:35 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024280 | 1 | 09/26/17 08:27 | 09/26/17 08:36 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024032 | 1 | 09/21/17 11:35 | 09/24/17 06:50 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024032 | 50 | 09/21/17 11:35 | 10/01/17 18:25 | DWR |

## B-222-25 L938636-12 Solid

Collected by: Shannon McKernan | Collected date/time: 09/21/17 11:55 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024282 | 1 | 09/26/17 08:15 | 09/26/17 08:27 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024032 | 1 | 09/21/17 11:55 | 09/24/17 07:09 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024032 | 25 | 09/21/17 11:55 | 10/01/17 18:45 | DWR |

## B-222-34 L938636-13 Solid

Collected by: Shannon McKernan | Collected date/time: 09/21/17 13:10 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024282 | 1 | 09/26/17 08:15 | 09/26/17 08:27 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024032 | 1 | 09/21/17 13:10 | 09/24/17 07:29 | JHH |

## B-222-42 L938636-14 Solid

Collected by: Shannon McKernan | Collected date/time: 09/21/17 13:00 | Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024282 | 1 | 09/26/17 08:15 | 09/26/17 08:27 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024032 | 1 | 09/21/17 13:00 | 09/24/17 07:48 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024032 | 100 | 09/21/17 13:00 | 10/01/17 19:04 | DWR |

## B-222-50 L938636-15 Solid

Collected by: Shannon McKernan
Collected date/time: 09/21/17 12:55
Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024282 | 1 | 09/26/17 08:15 | 09/26/17 08:27 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024032 | 50 | 09/21/17 12:55 | 10/01/17 19:25 | DWR |

## B-916-30 L938636-16 Solid

Collected by: Shannon McKernan
Collected date/time: 09/21/17 13:30
Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1024282 | 1 | 09/26/17 08:15 | 09/26/17 08:27 | JD |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024032 | 1 | 09/21/17 13:30 | 09/24/17 08:27 | JHH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024032 | 25 | 09/21/17 13:30 | 10/01/17 19:44 | DWR |

## TRIP BLANK-092117 L938636-17 GW

Collected by: Shannon McKernan
Collected date/time: 05/15/17 00:00
Received date/time: 09/22/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024893 | 1 | 09/27/17 01:35 | 09/27/17 01:35 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024893 | 1 | 10/02/17 20:51 | 10/02/17 20:51 | JAH |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.3 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 1.15 | 5.73 | 100 | 10/01/2017 15:02 | WG1026247 |
| Acrylonitrile | U | | 0.205 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |
| Benzene | U | | 0.0309 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Bromobenzene | U | | 0.0325 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Bromodichloromethane | U | | 0.0291 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Bromochloromethane | U | | 0.0447 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| Bromoform | U | | 0.0486 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Bromomethane | U | | 0.154 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| n-Butylbenzene | U | | 0.0296 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| sec-Butylbenzene | U | | 0.0230 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| tert-Butylbenzene | U | | 0.0236 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Carbon disulfide | U | | 0.0253 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Carbon tetrachloride | U | | 0.0376 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Chlorobenzene | U | | 0.0243 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Chlorodibromomethane | U | | 0.0428 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Chloroethane | U | | 0.108 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| Chloroform | U | | 0.0262 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| Chloromethane | U | | 0.0430 | 0.287 | 100 | 10/01/2017 15:02 | WG1026247 |
| 2-Chlorotoluene | U | | 0.0345 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 4-Chlorotoluene | U | | 0.0275 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.120 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.0393 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Dibromomethane | U | | 0.0438 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.0350 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.0274 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.0259 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.0817 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.0228 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.0304 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.0347 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| cis-1,2-Dichloroethene | 0.342 | | 0.0269 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.0303 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.0410 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.0363 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.0237 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.0300 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.0306 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.0892 | 0.287 | 100 | 10/01/2017 15:02 | WG1026247 |
| 2,2-Dichloropropane | U | J0 | 0.0320 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Di-isopropyl ether | U | J0 | 0.0284 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Ethylbenzene | U | | 0.0340 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.0392 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 2-Hexanone | U | | 0.157 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |
| n-Hexane | U | J0 | 0.0332 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |
| Iodomethane | U | | 0.290 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |
| Isopropylbenzene | U | | 0.0279 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| p-Isopropyltoluene | U | | 0.0234 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 2-Butanone (MEK) | U | | 0.536 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |
| Methylene Chloride | U | | 0.115 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.215 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0243 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Naphthalene | U | | 0.115 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| n-Propylbenzene | U | | 0.0236 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Styrene | U | | 0.0268 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0303 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0418 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0418 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Tetrachloroethene | 7.54 | | 0.0316 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Toluene | U | | 0.0497 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | 0.0351 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | 0.0445 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1,1-Trichloroethane | U | | 0.0328 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1,2-Trichloroethane | U | | 0.0317 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Trichloroethene | 0.400 | | 0.0320 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Trichlorofluoromethane | U | | 0.0438 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2,3-Trichloropropane | U | | 0.0849 | 0.287 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | 0.0242 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | 0.0329 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | 0.0305 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Vinyl acetate | U | | 0.274 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |
| Vinyl chloride | U | | 0.0334 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Xylenes, Total | U | | 0.0800 | 0.344 | 100 | 10/01/2017 15:02 | WG1026247 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *10/01/2017 15:02* | WG1026247 |
| *(S) Dibromofluoromethane* | *99.2* | | | *74.0-131* | | *10/01/2017 15:02* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *10/01/2017 15:02* | WG1026247 |

**Sample Narrative:**

L938636-01 WG1026247: Target compound too high to run at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.3 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 0.293 | 1.46 | 25 | 10/01/2017 14:42 | WG1026247 |
| Acrylonitrile | U | | 0.0525 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Benzene | U | | 0.00791 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Bromobenzene | U | | 0.00832 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Bromodichloromethane | U | | 0.00744 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Bromochloromethane | U | | 0.0114 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| Bromoform | U | | 0.0124 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Bromomethane | U | | 0.0393 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| n-Butylbenzene | U | | 0.00756 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| sec-Butylbenzene | U | | 0.00588 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| tert-Butylbenzene | U | | 0.00603 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Carbon disulfide | U | | 0.00647 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Carbon tetrachloride | U | | 0.00961 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Chlorobenzene | U | | 0.00621 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Chlorodibromomethane | U | | 0.0109 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Chloroethane | U | | 0.0277 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| Chloroform | U | | 0.00670 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| Chloromethane | U | | 0.0110 | 0.0732 | 25 | 10/01/2017 14:42 | WG1026247 |
| 2-Chlorotoluene | U | | 0.00881 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 4-Chlorotoluene | U | | 0.00703 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0307 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.0101 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Dibromomethane | U | | 0.0112 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.00893 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.00701 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.00662 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.0209 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.00584 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.00776 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.00888 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| cis-1,2-Dichloroethene | 1.37 | | 0.00689 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.00773 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.0105 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.00928 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.00607 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.00768 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.00783 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.0227 | 0.0732 | 25 | 10/01/2017 14:42 | WG1026247 |
| 2,2-Dichloropropane | U | J0 | 0.00818 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Di-isopropyl ether | U | J0 | 0.00727 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Ethylbenzene | U | | 0.00869 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.0100 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 2-Hexanone | U | | 0.0401 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |
| n-Hexane | U | J0 | 0.00850 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Iodomethane | U | | 0.0741 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Isopropylbenzene | U | | 0.00712 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| p-Isopropyltoluene | U | | 0.00598 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 2-Butanone (MEK) | U | | 0.137 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Methylene Chloride | U | | 0.0293 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.0551 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.00621 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Naphthalene | U | | 0.0293 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| n-Propylbenzene | U | | 0.00603 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Styrene | U | | 0.00686 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00773 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0107 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0107 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Tetrachloroethene | 0.539 | | 0.00809 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Toluene | U | | 0.0127 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | 0.00896 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | 0.0114 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1,1-Trichloroethane | U | | 0.00838 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1,2-Trichloroethane | U | | 0.00811 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Trichloroethene | 0.250 | | 0.00818 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Trichlorofluoromethane | U | | 0.0112 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2,3-Trichloropropane | U | | 0.0217 | 0.0732 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | 0.00619 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | 0.00841 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | 0.00779 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Vinyl acetate | U | | 0.0701 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Vinyl chloride | 0.0805 | | 0.00853 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Xylenes, Total | U | | 0.0204 | 0.0879 | 25 | 10/01/2017 14:42 | WG1026247 |
| *(S) Toluene-d8* | *113* | | | *80.0-120* | | *10/01/2017 14:42* | WG1026247 |
| *(S) Dibromofluoromethane* | *98.9* | | | *74.0-131* | | *10/01/2017 14:42* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *10/01/2017 14:42* | WG1026247 |

**Sample Narrative:**

L938636-02 WG1026247: Target compound too high to run at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.9 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 11.5 | 57.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Acrylonitrile | U | J0 | 2.06 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Benzene | U | | 0.311 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Bromobenzene | U | | 0.327 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Bromodichloromethane | U | | 0.292 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Bromochloromethane | U | | 0.449 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Bromoform | U | | 0.488 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Bromomethane | U | J0 | 1.54 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| n-Butylbenzene | U | | 0.297 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| sec-Butylbenzene | U | | 0.231 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| tert-Butylbenzene | U | | 0.237 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Carbon disulfide | U | | 0.254 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Carbon tetrachloride | U | | 0.377 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Chlorobenzene | U | | 0.244 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Chlorodibromomethane | U | | 0.429 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Chloroethane | U | | 1.09 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Chloroform | U | | 0.263 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Chloromethane | U | | 0.431 | 2.88 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 2-Chlorotoluene | U | | 0.346 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 4-Chlorotoluene | U | | 0.276 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.21 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.395 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Dibromomethane | U | | 0.439 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.351 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.275 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.260 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.820 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.229 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.305 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.349 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| cis-1,2-Dichloroethene | 2.56 | | 0.270 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.304 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.412 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.365 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.238 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.301 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.307 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U | | 0.895 | 2.88 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 2,2-Dichloropropane | U | | 0.321 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Di-isopropyl ether | U | | 0.285 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Ethylbenzene | U | | 0.342 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.393 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 2-Hexanone | U | J0 | 1.58 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| n-Hexane | U | | 0.334 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Iodomethane | U | | 2.91 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Isopropylbenzene | U | | 0.280 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| p-Isopropyltoluene | U | | 0.235 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 2-Butanone (MEK) | U | J0 | 5.38 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Methylene Chloride | U | | 1.15 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 2.16 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | J0 | 0.244 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Naphthalene | U | | 1.15 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| n-Propylbenzene | U | | 0.237 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Styrene | U | | 0.269 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | 0.304 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | 0.420 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.420 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Tetrachloroethene | 25.8 | | 0.318 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Toluene | U | | 0.499 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | 0.352 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | 0.446 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1,1-Trichloroethane | U | | 0.329 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1,2-Trichloroethane | U | | 0.319 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Trichloroethene | 0.984 | J | 0.321 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Trichlorofluoromethane | U | | 0.439 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2,3-Trichloropropane | U | | 0.852 | 2.88 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | 0.243 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | 0.330 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | 0.306 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Vinyl acetate | U | | 2.75 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Vinyl chloride | U | | 0.335 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Xylenes, Total | U | | 0.803 | 3.45 | 1000 | 09/29/2017 19:48 | WG1026247 |
| *(S) Toluene-d8* | *116* | | | *80.0-120* | | *09/29/2017 19:48* | WG1026247 |
| *(S) Dibromofluoromethane* | *99.6* | | | *74.0-131* | | *09/29/2017 19:48* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/29/2017 19:48* | WG1026247 |

**Sample Narrative:**

L938636-03 WG1026247: Target compound too high to run at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.3 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 11.2 | 56.0 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Acrylonitrile | U | J0 | 2.00 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Benzene | U | | 0.302 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Bromobenzene | U | | 0.318 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Bromodichloromethane | U | | 0.284 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Bromochloromethane | U | | 0.437 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Bromoform | U | | 0.475 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Bromomethane | U | J0 | 1.50 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| n-Butylbenzene | U | | 0.289 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| sec-Butylbenzene | U | | 0.225 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| tert-Butylbenzene | U | | 0.231 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Carbon disulfide | U | | 0.247 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Carbon tetrachloride | U | | 0.367 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Chlorobenzene | U | | 0.237 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Chlorodibromomethane | U | | 0.418 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Chloroethane | U | | 1.06 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Chloroform | U | | 0.256 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Chloromethane | U | | 0.420 | 2.80 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 2-Chlorotoluene | U | | 0.337 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 4-Chlorotoluene | U | | 0.269 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.18 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.384 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Dibromomethane | U | | 0.428 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.341 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.268 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.253 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.798 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.223 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.297 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.339 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| cis-1,2-Dichloroethene | 1.93 | | 0.263 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.296 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.401 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.355 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.232 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.293 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.299 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U | | 0.871 | 2.80 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 2,2-Dichloropropane | U | | 0.312 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Di-isopropyl ether | U | | 0.278 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Ethylbenzene | U | | 0.332 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.383 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 2-Hexanone | U | J0 | 1.53 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |
| n-Hexane | U | | 0.325 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Iodomethane | U | | 2.83 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Isopropylbenzene | U | | 0.272 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| p-Isopropyltoluene | U | | 0.228 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 2-Butanone (MEK) | U | J0 | 5.24 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Methylene Chloride | U | | 1.12 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 2.10 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | J0 | 0.237 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Naphthalene | U | | 1.12 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| n-Propylbenzene | U | | 0.231 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Styrene | U | | 0.262 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | 0.296 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | 0.409 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.409 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Tetrachloroethene | 21.8 | | 0.309 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Toluene | U | | 0.486 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | 0.343 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | 0.434 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1,1-Trichloroethane | U | | 0.320 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1,2-Trichloroethane | U | | 0.310 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Trichloroethene | 0.835 | J | 0.312 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Trichlorofluoromethane | U | | 0.428 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2,3-Trichloropropane | U | | 0.829 | 2.80 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | 0.236 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | 0.321 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | 0.298 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Vinyl acetate | U | | 2.68 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Vinyl chloride | U | | 0.326 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Xylenes, Total | U | | 0.781 | 3.36 | 1000 | 09/29/2017 20:08 | WG1026247 |
| *(S) Toluene-d8* | *116* | | | *80.0-120* | | *09/29/2017 20:08* | WG1026247 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *09/29/2017 20:08* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *111* | | | *64.0-132* | | *09/29/2017 20:08* | WG1026247 |

**Sample Narrative:**

L938636-04 WG1026247: Target compound too high to run at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.0 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 2.35 | 11.8 | 200 | 10/01/2017 15:21 | WG1026247 |
| Acrylonitrile | U | | 0.421 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |
| Benzene | U | | 0.0635 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Bromobenzene | U | | 0.0668 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Bromodichloromethane | U | | 0.0597 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Bromochloromethane | U | | 0.0917 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| Bromoform | U | | 0.0997 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Bromomethane | U | | 0.315 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| n-Butylbenzene | U | | 0.0607 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| sec-Butylbenzene | U | | 0.0473 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| tert-Butylbenzene | U | | 0.0484 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Carbon disulfide | U | | 0.0520 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Carbon tetrachloride | U | | 0.0771 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Chlorobenzene | U | | 0.0499 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Chlorodibromomethane | U | | 0.0877 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Chloroethane | U | | 0.222 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| Chloroform | U | | 0.0539 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| Chloromethane | U | | 0.0882 | 0.588 | 200 | 10/01/2017 15:21 | WG1026247 |
| 2-Chlorotoluene | U | | 0.0708 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 4-Chlorotoluene | U | | 0.0564 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.247 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.0807 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Dibromomethane | U | | 0.0898 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.0717 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.0562 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.0531 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.168 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.0468 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.0623 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.0713 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| cis-1,2-Dichloroethene | 0.438 | | 0.0553 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.0621 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.0842 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.0745 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.0487 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.0616 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.0628 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.183 | 0.588 | 200 | 10/01/2017 15:21 | WG1026247 |
| 2,2-Dichloropropane | U | J0 | 0.0656 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Di-isopropyl ether | U | J0 | 0.0583 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Ethylbenzene | U | | 0.0698 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.0804 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 2-Hexanone | U | | 0.322 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |
| n-Hexane | U | J0 | 0.0682 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |
| Iodomethane | U | | 0.595 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |
| Isopropylbenzene | U | | 0.0571 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| p-Isopropyltoluene | U | | 0.0480 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 2-Butanone (MEK) | U | | 1.10 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |
| Methylene Chloride | U | | 0.235 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.442 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0499 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Naphthalene | U | | 0.235 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| n-Propylbenzene | U | | 0.0484 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Styrene | U | | 0.0550 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0621 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0858 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0858 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Tetrachloroethene | 9.02 | | 0.0649 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Toluene | U | | 0.102 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | 0.0720 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | 0.0912 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1,1-Trichloroethane | U | | 0.0673 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1,2-Trichloroethane | U | | 0.0651 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Trichloroethene | 0.447 | | 0.0656 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Trichlorofluoromethane | U | | 0.0898 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2,3-Trichloropropane | U | | 0.174 | 0.588 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | 0.0496 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | 0.0675 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | 0.0626 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Vinyl acetate | U | | 0.562 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |
| Vinyl chloride | U | | 0.0684 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Xylenes, Total | U | | 0.165 | 0.705 | 200 | 10/01/2017 15:21 | WG1026247 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *10/01/2017 15:21* | WG1026247 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *10/01/2017 15:21* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *10/01/2017 15:21* | WG1026247 |

Sample Narrative:

L938636-05 WG1026247: Target compound too high to run at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.2 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 110 | 548 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Acrylonitrile | U | J0 | 19.6 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Benzene | U | | 2.96 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Bromobenzene | U | | 3.11 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Bromodichloromethane | U | | 2.79 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Bromochloromethane | U | | 4.28 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Bromoform | U | | 4.65 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Bromomethane | U | J0 | 14.7 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| n-Butylbenzene | U | | 2.83 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| sec-Butylbenzene | U | | 2.20 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| tert-Butylbenzene | U | | 2.26 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Carbon disulfide | U | | 2.42 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Carbon tetrachloride | U | | 3.60 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Chlorobenzene | U | | 2.33 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Chlorodibromomethane | U | | 4.09 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Chloroethane | U | | 10.4 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Chloroform | U | | 2.51 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Chloromethane | U | | 4.11 | 27.4 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 2-Chlorotoluene | U | | 3.30 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 4-Chlorotoluene | U | | 2.63 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 11.5 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2-Dibromoethane | U | | 3.76 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Dibromomethane | U | | 4.19 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 3.35 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 2.62 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 2.48 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Dichlorodifluoromethane | U | | 7.82 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1-Dichloroethane | U | | 2.18 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2-Dichloroethane | U | | 2.91 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1-Dichloroethene | U | | 3.32 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| cis-1,2-Dichloroethene | U | | 2.58 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 2.90 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2-Dichloropropane | U | | 3.93 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1-Dichloropropene | U | | 3.48 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,3-Dichloropropane | U | | 2.27 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 2.87 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 2.93 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U | | 8.53 | 27.4 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 2,2-Dichloropropane | U | | 3.06 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Di-isopropyl ether | U | | 2.72 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Ethylbenzene | U | | 3.26 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 3.75 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 2-Hexanone | U | J0 | 15.0 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |
| n-Hexane | U | | 3.18 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Iodomethane | U | | 27.7 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Isopropylbenzene | U | | 2.67 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| p-Isopropyltoluene | U | | 2.24 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 2-Butanone (MEK) | U | J0 | 51.3 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Methylene Chloride | U | | 11.0 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 20.6 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | J0 | 2.33 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Naphthalene | U | | 11.0 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| n-Propylbenzene | U | | 2.26 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Styrene | U | | 2.57 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | 2.90 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | 4.00 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | 4.00 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Tetrachloroethene | 8270 | | 60.5 | 219 | 200000 | 10/01/2017 16:20 | WG1026247 |
| Toluene | U | | 4.76 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | 3.36 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | 4.26 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1,1-Trichloroethane | U | | 3.14 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1,2-Trichloroethane | U | | 3.04 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Trichloroethene | 4.43 | J | 3.06 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Trichlorofluoromethane | U | | 4.19 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2,3-Trichloropropane | U | | 8.13 | 27.4 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | 2.31 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | 3.15 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | 2.92 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Vinyl acetate | U | | 26.2 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Vinyl chloride | U | | 3.19 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Xylenes, Total | U | | 7.66 | 32.9 | 10000 | 09/29/2017 20:47 | WG1026247 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *10/01/2017 16:20* | WG1026247 |
| *(S) Toluene-d8* | *116* | | | *80.0-120* | | *09/29/2017 20:47* | WG1026247 |
| *(S) Dibromofluoromethane* | *99.5* | | | *74.0-131* | | *10/01/2017 16:20* | WG1026247 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *09/29/2017 20:47* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *110* | | | *64.0-132* | | *09/29/2017 20:47* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *10/01/2017 16:20* | WG1026247 |

**Sample Narrative:**

L938636-06 WG1026247: Target compound too high to run at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.9 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 5.44 | 27.2 | 500 | 10/01/2017 15:41 | WG1026247 |
| Acrylonitrile | U | | 0.973 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |
| Benzene | U | | 0.147 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Bromobenzene | U | | 0.154 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Bromodichloromethane | U | | 0.138 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Bromochloromethane | U | | 0.212 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| Bromoform | U | | 0.231 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Bromomethane | U | | 0.729 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| n-Butylbenzene | U | | 0.140 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| sec-Butylbenzene | U | | 0.109 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| tert-Butylbenzene | U | | 0.112 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Carbon disulfide | U | | 0.120 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Carbon tetrachloride | U | | 0.178 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Chlorobenzene | U | | 0.115 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Chlorodibromomethane | U | | 0.202 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Chloroethane | U | | 0.514 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| Chloroform | U | | 0.124 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| Chloromethane | U | | 0.204 | 1.36 | 500 | 10/01/2017 15:41 | WG1026247 |
| 2-Chlorotoluene | U | | 0.163 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 4-Chlorotoluene | U | | 0.131 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.571 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.187 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Dibromomethane | U | | 0.208 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.165 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.131 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.123 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.387 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.108 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.144 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.165 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| cis-1,2-Dichloroethene | 0.561 | | 0.128 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.144 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.195 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.172 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.113 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.142 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.146 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.423 | 1.36 | 500 | 10/01/2017 15:41 | WG1026247 |
| 2,2-Dichloropropane | U | J0 | 0.152 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Di-isopropyl ether | U | J0 | 0.135 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Ethylbenzene | U | | 0.161 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.186 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 2-Hexanone | U | | 0.745 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |
| n-Hexane | U | J0 | 0.158 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |
| Iodomethane | U | | 1.37 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |
| Isopropylbenzene | U | | 0.133 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| p-Isopropyltoluene | U | | 0.111 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 2-Butanone (MEK) | U | | 2.54 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |
| Methylene Chloride | U | | 0.544 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 1.02 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.115 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Naphthalene | U | | 0.544 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| n-Propylbenzene | U | | 0.112 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Styrene | U | | 0.127 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | 0.144 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | 0.198 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.198 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Tetrachloroethene | 30.4 | | 0.150 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Toluene | U | | 0.236 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | 0.166 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | 0.211 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1,1-Trichloroethane | U | | 0.156 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1,2-Trichloroethane | U | | 0.150 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Trichloroethene | 0.618 | | 0.152 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Trichlorofluoromethane | U | | 0.208 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2,3-Trichloropropane | U | | 0.402 | 1.36 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | 0.115 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | 0.157 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | 0.145 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Vinyl acetate | U | | 1.31 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |
| Vinyl chloride | U | | 0.159 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Xylenes, Total | U | | 0.380 | 1.63 | 500 | 10/01/2017 15:41 | WG1026247 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *10/01/2017 15:41* | WG1026247 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *10/01/2017 15:41* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *10/01/2017 15:41* | WG1026247 |

Sample Narrative:

L938636-07 WG1026247: Target compound too high to run at a lower dilution.

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 63.3 | J | 31.6 | 100 | 1 | 09/27/2017 19:54 | WG1024796 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.8* | | | *77.0-122* | | *09/27/2017 19:54* | WG1024796 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 5.55 | J | 2.10 | 50.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| Acrylonitrile | U | | 1.75 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| Benzene | U | | 0.179 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Bromobenzene | U | | 0.266 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Bromodichloromethane | U | | 0.160 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Bromochloromethane | U | | 0.290 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Bromoform | U | | 0.372 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Bromomethane | U | | 0.314 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| n-Butylbenzene | U | | 0.286 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| sec-Butylbenzene | U | | 0.268 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| tert-Butylbenzene | U | | 0.366 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Carbon disulfide | U | | 0.202 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Carbon tetrachloride | U | | 0.318 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Chlorobenzene | U | | 0.280 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Chlorodibromomethane | U | | 0.256 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Chloroethane | U | | 0.282 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Chloroform | U | | 0.172 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Chloromethane | U | | 0.306 | 2.50 | 2 | 09/27/2017 07:22 | WG1024893 |
| 2-Chlorotoluene | U | | 0.222 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 4-Chlorotoluene | U | | 0.194 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.650 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2-Dibromoethane | U | | 0.386 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Dibromomethane | U | | 0.234 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2-Dichlorobenzene | U | | 0.202 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,3-Dichlorobenzene | U | | 0.260 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,4-Dichlorobenzene | U | | 0.242 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Dichlorodifluoromethane | U | | 0.254 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1-Dichloroethane | U | | 0.228 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2-Dichloroethane | U | | 0.216 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1-Dichloroethene | U | | 0.376 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| cis-1,2-Dichloroethene | U | | 0.187 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| trans-1,2-Dichloroethene | U | | 0.304 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2-Dichloropropane | U | | 0.380 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1-Dichloropropene | U | | 0.256 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,3-Dichloropropane | U | | 0.294 | 2.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| cis-1,3-Dichloropropene | U | | 0.195 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| trans-1,3-Dichloropropene | U | | 0.444 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| trans-1,4-Dichloro-2-butene | U | | 0.514 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| 2,2-Dichloropropane | U | | 0.186 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Di-isopropyl ether | U | | 0.185 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Ethylbenzene | U | | 0.316 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Hexachloro-1,3-butadiene | U | | 0.314 | 2.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 2-Hexanone | U | | 1.51 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| n-Hexane | 1.91 | J | 0.610 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| Iodomethane | U | | 0.754 | 20.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| Isopropylbenzene | U | | 0.252 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| p-Isopropyltoluene | U | | 0.276 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 2-Butanone (MEK) | U | | 2.56 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 2.14 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 4-Methyl-2-pentanone (MIBK) | U | | 1.65 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| Methyl tert-butyl ether | U | | 0.204 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Naphthalene | U | | 0.348 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| n-Propylbenzene | U | | 0.324 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Styrene | U | | 0.234 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1,1,2-Tetrachloroethane | U | | 0.240 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1,2,2-Tetrachloroethane | U | | 0.260 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.328 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Tetrachloroethene | U | | 0.398 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Toluene | 2.60 | | 0.824 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2,3-Trichlorobenzene | U | | 0.328 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2,4-Trichlorobenzene | U | | 0.710 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1,1-Trichloroethane | U | | 0.188 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1,2-Trichloroethane | U | | 0.372 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Trichloroethene | U | | 0.306 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Trichlorofluoromethane | U | | 0.260 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2,3-Trichloropropane | U | | 0.494 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2,4-Trimethylbenzene | U | | 0.246 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2,3-Trimethylbenzene | U | | 0.148 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,3,5-Trimethylbenzene | U | | 0.248 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Vinyl acetate | U | | 1.29 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| Vinyl chloride | U | | 0.236 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Xylenes, Total | U | | 0.632 | 3.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/27/2017 07:22* | WG1024893 |
| *(S) Dibromofluoromethane* | *103* | | | *76.0-123* | | *09/27/2017 07:22* | WG1024893 |
| *(S) 4-Bromofluorobenzene* | *90.4* | | | *80.0-120* | | *09/27/2017 07:22* | WG1024893 |

**Sample Narrative:**

L938636-08 WG1024893: Lowest possible dilution due to sediment in sample vial.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.5 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 J3 | 5.53 | 27.6 | 500 | 10/01/2017 16:01 | WG1026247 |
| Acrylonitrile | U | | 0.989 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |
| Benzene | U | | 0.149 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Bromobenzene | U | | 0.157 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Bromodichloromethane | U | | 0.140 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Bromochloromethane | U | | 0.215 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| Bromoform | U | | 0.234 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Bromomethane | U | | 0.740 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| n-Butylbenzene | U | | 0.143 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| sec-Butylbenzene | U | | 0.111 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| tert-Butylbenzene | U | | 0.114 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Carbon disulfide | U | | 0.122 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Carbon tetrachloride | U | | 0.181 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Chlorobenzene | U | | 0.117 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Chlorodibromomethane | U | | 0.206 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Chloroethane | U | | 0.523 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| Chloroform | U | | 0.126 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| Chloromethane | U | | 0.208 | 1.38 | 500 | 10/01/2017 16:01 | WG1026247 |
| 2-Chlorotoluene | U | | 0.166 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 4-Chlorotoluene | U | | 0.133 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.580 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.190 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Dibromomethane | U | | 0.211 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.168 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.133 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.125 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.393 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.110 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.146 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.168 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| cis-1,2-Dichloroethene | 1.41 | | 0.130 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.146 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.198 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.175 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.115 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.145 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.148 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.430 | 1.38 | 500 | 10/01/2017 16:01 | WG1026247 |
| 2,2-Dichloropropane | U | J0 | 0.155 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Di-isopropyl ether | U | J0 | 0.137 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Ethylbenzene | U | | 0.164 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.189 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 2-Hexanone | U | | 0.757 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |
| n-Hexane | U | J0 | 0.160 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |
| Iodomethane | U | | 1.39 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |
| Isopropylbenzene | U | | 0.135 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| p-Isopropyltoluene | U | | 0.113 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 2-Butanone (MEK) | U | | 2.59 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |
| Methylene Chloride | U | | 0.553 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 1.04 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.117 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Naphthalene | U | | 0.553 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| n-Propylbenzene | U | | 0.114 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Styrene | U | | 0.129 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | 0.146 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | 0.201 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.201 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Tetrachloroethene | 14.5 | | 0.152 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Toluene | U | | 0.240 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | 0.169 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | 0.214 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1,1-Trichloroethane | U | | 0.158 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1,2-Trichloroethane | U | | 0.152 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Trichloroethene | 0.865 | | 0.155 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Trichlorofluoromethane | U | | 0.211 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2,3-Trichloropropane | U | | 0.409 | 1.38 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | 0.117 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | 0.159 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | 0.147 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Vinyl acetate | U | | 1.33 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |
| Vinyl chloride | U | | 0.161 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Xylenes, Total | U | | 0.386 | 1.66 | 500 | 10/01/2017 16:01 | WG1026247 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *10/01/2017 16:01* | WG1026247 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *10/01/2017 16:01* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *10/01/2017 16:01* | WG1026247 |

Sample Narrative:

L938636-09 WG1026247: Target compound too high to run at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.6 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0110 | 0.0552 | 1 | 09/24/2017 06:30 | WG1024032 |
| Acrylonitrile | U | | 0.00198 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Benzene | U | | 0.000298 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Bromobenzene | U | | 0.000313 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Bromochloromethane | U | | 0.000431 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| Bromoform | U | | 0.000468 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Bromomethane | U | | 0.00148 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| n-Butylbenzene | U | | 0.000285 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| sec-Butylbenzene | U | | 0.000222 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Carbon disulfide | 0.000317 | J | 0.000244 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Carbon tetrachloride | U | | 0.000362 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Chlorodibromomethane | U | | 0.000412 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Chloroethane | U | | 0.00104 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| Chloroform | U | | 0.000253 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| Chloromethane | U | | 0.000414 | 0.00276 | 1 | 09/24/2017 06:30 | WG1024032 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 4-Chlorotoluene | U | | 0.000265 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.000379 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Dibromomethane | U | | 0.000422 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.000264 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.000249 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.000787 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.000220 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.000293 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1-Dichloroethene | U | | 0.000334 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| cis-1,2-Dichloroethene | 0.00582 | | 0.000259 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| trans-1,2-Dichloroethene | U | | 0.000291 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.000395 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.000350 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.000289 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.000295 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U | | 0.000859 | 0.00276 | 1 | 09/24/2017 06:30 | WG1024032 |
| 2,2-Dichloropropane | U | J0 | 0.000308 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Di-isopropyl ether | U | | 0.000274 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Ethylbenzene | U | | 0.000328 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.000378 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |
| n-Hexane | U | | 0.000320 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 2-Butanone (MEK) | U | | 0.00517 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Methylene Chloride | U | | 0.00110 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00208 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000234 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Naphthalene | U | | 0.00110 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000291 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000403 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000403 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Tetrachloroethene | 0.0853 | J0 | 0.000305 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Toluene | U | | 0.000479 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.000338 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.000428 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.000316 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.000306 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Trichloroethene | 0.00152 | | 0.000308 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Trichlorofluoromethane | U | | 0.000422 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.000818 | 0.00276 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.000233 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.000317 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.000294 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Vinyl acetate | U | | 0.00264 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Vinyl chloride | 0.00153 | | 0.000321 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Xylenes, Total | U | | 0.000770 | 0.00331 | 1 | 09/24/2017 06:30 | WG1024032 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/24/2017 06:30* | WG1024032 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/24/2017 06:30* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *113* | | | *64.0-132* | | *09/24/2017 06:30* | WG1024032 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.2 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0113 | 0.0567 | 1 | 09/24/2017 06:50 | WG1024032 |
| Acrylonitrile | U | | 0.00203 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Benzene | U | | 0.000306 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Bromobenzene | U | | 0.000322 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Bromodichloromethane | U | | 0.000288 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Bromochloromethane | U | | 0.000442 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| Bromoform | U | | 0.000481 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Bromomethane | U | | 0.00152 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| n-Butylbenzene | U | | 0.000293 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| sec-Butylbenzene | U | | 0.000228 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| tert-Butylbenzene | U | | 0.000234 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Carbon disulfide | 0.000299 | J | 0.000251 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Carbon tetrachloride | U | | 0.000372 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Chlorobenzene | U | | 0.000240 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Chlorodibromomethane | U | | 0.000423 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Chloroethane | U | | 0.00107 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| Chloroform | U | | 0.000260 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| Chloromethane | U | | 0.000425 | 0.00283 | 1 | 09/24/2017 06:50 | WG1024032 |
| 2-Chlorotoluene | U | | 0.000341 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 4-Chlorotoluene | U | | 0.000272 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.000389 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Dibromomethane | U | | 0.000433 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.000271 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.000808 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.000226 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.000300 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1-Dichloroethene | 0.0110 | | 0.000344 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| cis-1,2-Dichloroethene | U | | 0.000266 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| trans-1,2-Dichloroethene | 0.00481 | | 0.000299 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.000406 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.000359 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.000235 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.000297 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.000303 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U | | 0.000882 | 0.00283 | 1 | 09/24/2017 06:50 | WG1024032 |
| 2,2-Dichloropropane | U | J0 | 0.000316 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Di-isopropyl ether | U | | 0.000281 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Ethylbenzene | U | | 0.000337 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.000388 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |
| n-Hexane | U | | 0.000329 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Iodomethane | U | | 0.00287 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Isopropylbenzene | U | | 0.000276 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| p-Isopropyltoluene | U | | 0.000231 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 2-Butanone (MEK) | U | | 0.00531 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Methylene Chloride | U | | 0.00113 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00213 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000240 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Naphthalene | U | | 0.00113 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| n-Propylbenzene | U | | 0.000234 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Styrene | U | | 0.000265 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000299 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000414 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000414 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Tetrachloroethene | 1.01 | | 0.0156 | 0.0567 | 50 | 10/01/2017 18:25 | WG1024032 |
| Toluene | U | | 0.000492 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.000347 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.000440 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.000324 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.000314 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Trichloroethene | 0.815 | | 0.0159 | 0.0567 | 50 | 10/01/2017 18:25 | WG1024032 |
| Trichlorofluoromethane | U | | 0.000433 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.000840 | 0.00283 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.000239 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.000325 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.000302 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Vinyl acetate | U | | 0.00271 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Vinyl chloride | 0.00907 | | 0.000330 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Xylenes, Total | U | | 0.000791 | 0.00340 | 1 | 09/24/2017 06:50 | WG1024032 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/24/2017 06:50* | WG1024032 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *10/01/2017 18:25* | WG1024032 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *10/01/2017 18:25* | WG1024032 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/24/2017 06:50* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *10/01/2017 18:25* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/24/2017 06:50* | WG1024032 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.5 | | 1 | 09/26/2017 08:27 | WG1024282 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0578 | 1 | 09/24/2017 07:09 | WG1024032 |
| Acrylonitrile | U | | 0.00207 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Benzene | U | | 0.000312 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Bromobenzene | U | | 0.000328 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Bromochloromethane | U | | 0.000451 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| Bromoform | U | | 0.000490 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Bromomethane | U | | 0.00155 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| n-Butylbenzene | U | | 0.000298 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| sec-Butylbenzene | U | | 0.000232 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| tert-Butylbenzene | U | | 0.000238 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Carbon disulfide | U | | 0.000255 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Carbon tetrachloride | U | | 0.000379 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Chlorobenzene | U | | 0.000245 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Chlorodibromomethane | U | | 0.000431 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Chloroethane | U | | 0.00109 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| Chloroform | U | | 0.000265 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| Chloromethane | U | | 0.000433 | 0.00289 | 1 | 09/24/2017 07:09 | WG1024032 |
| 2-Chlorotoluene | U | | 0.000348 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 4-Chlorotoluene | U | | 0.000277 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.000396 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Dibromomethane | U | | 0.000442 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.000276 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.000261 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.000824 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.000306 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1-Dichloroethene | 0.00119 | | 0.000350 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| cis-1,2-Dichloroethene | 0.109 | | 0.000272 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| trans-1,2-Dichloroethene | 0.00171 | | 0.000305 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.000414 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.000366 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.000239 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.000303 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U | | 0.000899 | 0.00289 | 1 | 09/24/2017 07:09 | WG1024032 |
| 2,2-Dichloropropane | U | J0 | 0.000322 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Di-isopropyl ether | U | | 0.000287 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Ethylbenzene | U | | 0.000343 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.000395 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 2-Hexanone | U | | 0.00158 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |
| n-Hexane | U | | 0.000335 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Iodomethane | U | | 0.00292 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Isopropylbenzene | U | | 0.000281 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 2-Butanone (MEK) | U | | 0.00541 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Methylene Chloride | U | | 0.00116 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00217 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000245 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Naphthalene | U | | 0.00116 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| n-Propylbenzene | U | | 0.000238 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Styrene | U | | 0.000270 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000305 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000422 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000422 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Tetrachloroethene | 0.714 | | 0.00797 | 0.0289 | 25 | 10/01/2017 18:45 | WG1024032 |
| Toluene | U | | 0.000502 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.000448 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.000320 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Trichloroethene | 0.130 | | 0.000322 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Trichlorofluoromethane | U | | 0.000442 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.000856 | 0.00289 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.000332 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.000307 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Vinyl acetate | U | | 0.00276 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Vinyl chloride | 0.0116 | | 0.000336 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Xylenes, Total | U | | 0.000807 | 0.00347 | 1 | 09/24/2017 07:09 | WG1024032 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/24/2017 07:09* | WG1024032 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *10/01/2017 18:45* | WG1024032 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/24/2017 07:09* | WG1024032 |
| *(S) Dibromofluoromethane* | *96.6* | | | *74.0-131* | | *10/01/2017 18:45* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/24/2017 07:09* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *10/01/2017 18:45* | WG1024032 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.3 | | 1 | 09/26/2017 08:27 | WG1024282 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0112 | 0.0560 | 1 | 09/24/2017 07:29 | WG1024032 |
| Acrylonitrile | U | | 0.00201 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Benzene | U | | 0.000303 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Bromobenzene | U | | 0.000318 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Bromodichloromethane | U | | 0.000285 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Bromochloromethane | U | | 0.000437 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| Bromoform | U | | 0.000475 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Bromomethane | U | | 0.00150 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| n-Butylbenzene | U | | 0.000289 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| sec-Butylbenzene | U | | 0.000225 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| tert-Butylbenzene | U | | 0.000231 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Carbon disulfide | U | | 0.000248 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Carbon tetrachloride | U | | 0.000368 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Chlorobenzene | U | | 0.000238 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Chlorodibromomethane | U | | 0.000418 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Chloroethane | 0.00230 | J | 0.00106 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| Chloroform | U | | 0.000257 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| Chloromethane | U | | 0.000420 | 0.00280 | 1 | 09/24/2017 07:29 | WG1024032 |
| 2-Chlorotoluene | U | | 0.000337 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 4-Chlorotoluene | U | | 0.000269 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.000384 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Dibromomethane | U | | 0.000428 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.000268 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.000253 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.000799 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.000223 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.000297 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1-Dichloroethene | U | | 0.000339 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| cis-1,2-Dichloroethene | 0.0255 | | 0.000263 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| trans-1,2-Dichloroethene | 0.000980 | J | 0.000296 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.000401 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.000355 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.000232 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.000294 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.000299 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U | | 0.000872 | 0.00280 | 1 | 09/24/2017 07:29 | WG1024032 |
| 2,2-Dichloropropane | U | J0 | 0.000313 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Di-isopropyl ether | U | | 0.000278 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Ethylbenzene | U | | 0.000333 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.000383 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |
| n-Hexane | U | | 0.000325 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Isopropylbenzene | U | | 0.000272 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| p-Isopropyltoluene | U | | 0.000229 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 2-Butanone (MEK) | 0.00629 | J | 0.00524 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Methylene Chloride | U | | 0.00112 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00211 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000238 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Naphthalene | U | | 0.00112 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| n-Propylbenzene | U | | 0.000231 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Styrene | U | | 0.000262 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000296 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000409 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000409 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Tetrachloroethene | 0.0190 | J0 | 0.000309 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Toluene | U | | 0.000486 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.000343 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.000435 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.000320 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.000310 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Trichloroethene | 0.00506 | | 0.000313 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Trichlorofluoromethane | U | | 0.000428 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.000830 | 0.00280 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.000322 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.000298 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Vinyl acetate | U | | 0.00268 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Vinyl chloride | 0.0120 | | 0.000326 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Xylenes, Total | U | | 0.000782 | 0.00336 | 1 | 09/24/2017 07:29 | WG1024032 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/24/2017 07:29* | WG1024032 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/24/2017 07:29* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/24/2017 07:29* | WG1024032 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.6 | | 1 | 09/26/2017 08:27 | WG1024282 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0124 | 0.0620 | 1 | 09/24/2017 07:48 | WG1024032 |
| Acrylonitrile | U | | 0.00222 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Benzene | 0.000387 | J | 0.000335 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Bromobenzene | U | | 0.000352 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Bromodichloromethane | U | | 0.000315 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Bromochloromethane | U | | 0.000484 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| Bromoform | U | | 0.000526 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Bromomethane | U | | 0.00166 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| n-Butylbenzene | U | | 0.000320 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| sec-Butylbenzene | U | | 0.000249 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| tert-Butylbenzene | U | | 0.000255 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Carbon disulfide | 0.00400 | | 0.000274 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Carbon tetrachloride | U | | 0.000407 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Chlorobenzene | U | | 0.000263 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Chlorodibromomethane | U | | 0.000463 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Chloroethane | U | | 0.00117 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| Chloroform | U | | 0.000284 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| Chloromethane | U | | 0.000465 | 0.00310 | 1 | 09/24/2017 07:48 | WG1024032 |
| 2-Chlorotoluene | U | | 0.000373 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 4-Chlorotoluene | U | | 0.000298 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00130 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.000425 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Dibromomethane | U | | 0.000474 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.000378 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.000296 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.000280 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.000884 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.000247 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.000329 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1-Dichloroethene | 0.00666 | | 0.000376 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| cis-1,2-Dichloroethene | 7.34 | | 0.0291 | 0.124 | 100 | 10/01/2017 19:04 | WG1024032 |
| trans-1,2-Dichloroethene | 0.0431 | | 0.000327 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.000444 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.000393 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.000257 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.000325 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.000331 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U | | 0.000965 | 0.00310 | 1 | 09/24/2017 07:48 | WG1024032 |
| 2,2-Dichloropropane | U | J0 | 0.000346 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Di-isopropyl ether | U | | 0.000308 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Ethylbenzene | U | | 0.000368 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.000424 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 2-Hexanone | U | | 0.00170 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |
| n-Hexane | 0.00395 | J | 0.000360 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Iodomethane | U | | 0.00314 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Isopropylbenzene | U | | 0.000301 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| p-Isopropyltoluene | U | | 0.000253 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 2-Butanone (MEK) | U | | 0.00580 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Methylene Chloride | U | | 0.00124 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00233 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000263 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Naphthalene | U | | 0.00124 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| n-Propylbenzene | U | | 0.000255 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Styrene | U | | 0.000290 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000327 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000453 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000453 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Tetrachloroethene | 0.0557 | J0 | 0.000342 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Toluene | U | | 0.000538 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.000380 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.000481 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.000355 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.000344 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Trichloroethene | 0.00699 | | 0.000346 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Trichlorofluoromethane | U | | 0.000474 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.000919 | 0.00310 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.000262 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.000356 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.000330 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Vinyl acetate | U | | 0.00296 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Vinyl chloride | 0.127 | | 0.000361 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Xylenes, Total | U | | 0.000866 | 0.00372 | 1 | 09/24/2017 07:48 | WG1024032 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/24/2017 07:48* | WG1024032 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *10/01/2017 19:04* | WG1024032 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *10/01/2017 19:04* | WG1024032 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/24/2017 07:48* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *112* | | | *64.0-132* | | *09/24/2017 07:48* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *10/01/2017 19:04* | WG1024032 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.2 | | 1 | 09/26/2017 08:27 | WG1024282 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | J0 | 0.536 | 2.68 | 50 | 10/01/2017 19:25 | WG1024032 |
| Acrylonitrile | U | | 0.0960 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Benzene | U | | 0.0145 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Bromobenzene | U | | 0.0152 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Bromodichloromethane | U | | 0.0136 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Bromochloromethane | U | | 0.0209 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| Bromoform | U | | 0.0227 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Bromomethane | U | | 0.0719 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| n-Butylbenzene | U | | 0.0138 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| sec-Butylbenzene | U | | 0.0107 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| tert-Butylbenzene | U | | 0.0110 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Carbon disulfide | U | | 0.0118 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Carbon tetrachloride | U | | 0.0176 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Chlorobenzene | U | | 0.0114 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Chlorodibromomethane | U | | 0.0199 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Chloroethane | U | | 0.0507 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| Chloroform | U | | 0.0122 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| Chloromethane | U | | 0.0202 | 0.134 | 50 | 10/01/2017 19:25 | WG1024032 |
| 2-Chlorotoluene | U | | 0.0161 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 4-Chlorotoluene | U | | 0.0129 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0563 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.0184 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Dibromomethane | U | | 0.0205 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.0163 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.0129 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.0121 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.0382 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.0107 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.0142 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1-Dichloroethene | U | | 0.0163 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| cis-1,2-Dichloroethene | 0.498 | | 0.0127 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| trans-1,2-Dichloroethene | U | | 0.0142 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.0192 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.0169 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.0112 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.0140 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.0144 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.0417 | 0.134 | 50 | 10/01/2017 19:25 | WG1024032 |
| 2,2-Dichloropropane | U | J0 | 0.0150 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Di-isopropyl ether | U | J0 | 0.0133 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Ethylbenzene | U | | 0.0159 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.0183 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 2-Hexanone | U | | 0.0735 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |
| n-Hexane | U | J0 | 0.0156 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Iodomethane | U | | 0.135 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Isopropylbenzene | U | | 0.0131 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| p-Isopropyltoluene | U | | 0.0109 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 2-Butanone (MEK) | U | | 0.251 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Methylene Chloride | U | | 0.0536 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.101 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0114 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Naphthalene | U | | 0.0536 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| n-Propylbenzene | U | | 0.0110 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Styrene | U | | 0.0125 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0142 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0195 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0195 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Tetrachloroethene | 4.09 | | 0.0148 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Toluene | U | | 0.0233 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.0164 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.0208 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.0153 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.0148 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Trichloroethene | 1.40 | | 0.0150 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Trichlorofluoromethane | U | | 0.0205 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.0397 | 0.134 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.0114 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.0154 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.0143 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Vinyl acetate | U | | 0.129 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Vinyl chloride | U | | 0.0157 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Xylenes, Total | U | | 0.0374 | 0.161 | 50 | 10/01/2017 19:25 | WG1024032 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *10/01/2017 19:25* | WG1024032 |
| *(S) Dibromofluoromethane* | *96.9* | | | *74.0-131* | | *10/01/2017 19:25* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *10/01/2017 19:25* | WG1024032 |

Sample Narrative:

L938636-15 WG1024032: Target compound too high to run at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.3 | | 1 | 09/26/2017 08:27 | WG1024282 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0106 | 0.0530 | 1 | 09/24/2017 08:27 | WG1024032 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Benzene | U | | 0.000286 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Bromobenzene | U | | 0.000301 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Bromodichloromethane | U | | 0.000269 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Bromochloromethane | U | | 0.000414 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| Bromoform | U | | 0.000450 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Bromomethane | U | | 0.00142 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| n-Butylbenzene | U | | 0.000274 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| sec-Butylbenzene | U | | 0.000213 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| tert-Butylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Carbon disulfide | 0.00171 | | 0.000234 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Carbon tetrachloride | U | | 0.000348 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Chlorobenzene | U | | 0.000225 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Chlorodibromomethane | U | | 0.000396 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Chloroethane | U | | 0.00100 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| Chloroform | U | | 0.000243 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| Chloromethane | U | | 0.000398 | 0.00265 | 1 | 09/24/2017 08:27 | WG1024032 |
| 2-Chlorotoluene | U | | 0.000319 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.000364 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Dibromomethane | U | | 0.000405 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.000323 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.000253 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.000240 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.000756 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.000211 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.000281 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1-Dichloroethene | 0.000787 | J | 0.000321 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| cis-1,2-Dichloroethene | 0.160 | | 0.000249 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| trans-1,2-Dichloroethene | 0.00183 | | 0.000280 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.000380 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.000336 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.000278 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.000283 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U | | 0.000825 | 0.00265 | 1 | 09/24/2017 08:27 | WG1024032 |
| 2,2-Dichloropropane | U | J0 | 0.000296 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Di-isopropyl ether | U | | 0.000263 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Ethylbenzene | U | | 0.000315 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.000363 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 2-Hexanone | U | | 0.00145 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |
| n-Hexane | 0.000393 | J | 0.000308 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Iodomethane | U | | 0.00268 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Isopropylbenzene | U | | 0.000258 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| p-Isopropyltoluene | U | | 0.000216 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 2-Butanone (MEK) | U | | 0.00496 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Methylene Chloride | U | | 0.00106 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00199 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000225 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Naphthalene | U | | 0.00106 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| n-Propylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Styrene | U | | 0.000248 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000280 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000387 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000387 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Tetrachloroethene | 4.34 | | 0.00732 | 0.0265 | 25 | 10/01/2017 19:44 | WG1024032 |
| Toluene | U | | 0.000460 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.000411 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.000303 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.000294 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Trichloroethene | 0.172 | | 0.000296 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Trichlorofluoromethane | U | | 0.000405 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.000786 | 0.00265 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.000224 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.000304 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.000282 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Vinyl acetate | U | | 0.00253 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Vinyl chloride | U | | 0.000309 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Xylenes, Total | U | | 0.000740 | 0.00318 | 1 | 09/24/2017 08:27 | WG1024032 |
| *(S) Toluene-d8* | *97.1* | | | *80.0-120* | | *10/01/2017 19:44* | WG1024032 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/24/2017 08:27* | WG1024032 |
| *(S) Dibromofluoromethane* | *94.2* | | | *74.0-131* | | *10/01/2017 19:44* | WG1024032 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *09/24/2017 08:27* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *112* | | | *64.0-132* | | *09/24/2017 08:27* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *10/01/2017 19:44* | WG1024032 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1.05 | 25.0 | 1 | 09/27/2017 01:35 | WG1024893 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/27/2017 01:35 | WG1024893 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 10/02/2017 20:51 | WG1024893 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/27/2017 01:35 | WG1024893 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *10/02/2017 20:51* | WG1024893 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/27/2017 01:35* | WG1024893 |
| *(S) Dibromofluoromethane* | *90.8* | | | *76.0-123* | | *10/02/2017 20:51* | WG1024893 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/27/2017 01:35* | WG1024893 |
| *(S) 4-Bromofluorobenzene* | *90.6* | | | *80.0-120* | | *09/27/2017 01:35* | WG1024893 |
| *(S) 4-Bromofluorobenzene* | *99.2* | | | *80.0-120* | | *10/02/2017 20:51* | WG1024893 |

## Method Blank (MB)

(MB) R3252565-1 09/26/17 08:36

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | % | | % | % |
| Total Solids | 0.000800 | | | |

## L938636-06 Original Sample (OS) • Duplicate (DUP)

(OS) L938636-06 09/26/17 08:36 • (DUP) R3252565-3 09/26/17 08:36

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | % | % | | % | | % |
| Total Solids | 91.2 | 90.8 | 1 | 0.422 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3252565-2 09/26/17 08:36

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3252564-1 09/26/17 08:27

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000700 | | | |

## L938236-02 Original Sample (OS) • Duplicate (DUP)

(OS) L938236-02 09/26/17 08:27 • (DUP) R3252564-3 09/26/17 08:27

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 73.0 | 72.8 | 1 | 0.237 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3252564-2 09/26/17 08:27

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3253568-3 09/27/17 11:59

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.6* | | | *77.0-122* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3253568-1 09/27/17 10:48 • (LCSD) R3253568-2 09/27/17 11:11

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 4900 | 5360 | 89.1 | 97.5 | 72.0-134 | | | 9.06 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *106* | *106* | *77.0-122* | | | | |

## L938609-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L938609-04 09/27/17 13:34 • (MS) R3253568-4 09/27/17 20:18 • (MSD) R3253568-5 09/27/17 20:41

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | ND | 7340 | 10500 | 134 | 191 | 1 | 23.0-159 | | J3 J5 | 35.7 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *111* | *114* | | *77.0-122* | | | | |

## Method Blank (MB)

(MB) R3253788-3 09/24/17 01:35

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3253788-3 09/24/17 01:35

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *116* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *110* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3253788-1 09/24/17 00:04 • (LCSD) R3253788-2 09/24/17 00:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.114 | 0.0976 | 91.6 | 78.1 | 11.0-160 | | | 16.0 | 23 |
| Acrylonitrile | 0.125 | 0.111 | 0.108 | 88.5 | 86.5 | 61.0-143 | | | 2.20 | 20 |
| Benzene | 0.0250 | 0.0249 | 0.0258 | 99.7 | 103 | 71.0-124 | | | 3.49 | 20 |
| Bromobenzene | 0.0250 | 0.0260 | 0.0270 | 104 | 108 | 78.0-120 | | | 3.64 | 20 |
| Bromodichloromethane | 0.0250 | 0.0265 | 0.0270 | 106 | 108 | 75.0-120 | | | 1.74 | 20 |
| Bromoform | 0.0250 | 0.0282 | 0.0287 | 113 | 115 | 65.0-133 | | | 1.76 | 20 |
| Bromochloromethane | 0.0250 | 0.0281 | 0.0281 | 113 | 113 | 80.0-121 | | | 0.0200 | 20 |
| Bromomethane | 0.0250 | 0.0230 | 0.0238 | 91.9 | 95.0 | 26.0-160 | | | 3.34 | 20 |
| n-Butylbenzene | 0.0250 | 0.0249 | 0.0264 | 99.6 | 106 | 73.0-126 | | | 5.94 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0260 | 0.0271 | 104 | 108 | 75.0-121 | | | 3.95 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0255 | 0.0266 | 102 | 106 | 74.0-122 | | | 3.97 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0223 | 0.0230 | 89.3 | 91.8 | 66.0-123 | | | 2.81 | 20 |
| Carbon disulfide | 0.0250 | 0.0253 | 0.0261 | 101 | 104 | 53.0-130 | | | 3.12 | 20 |
| Chlorobenzene | 0.0250 | 0.0275 | 0.0280 | 110 | 112 | 79.0-121 | | | 1.62 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0273 | 0.0271 | 109 | 108 | 74.0-128 | | | 0.670 | 20 |
| Chloroethane | 0.0250 | 0.0247 | 0.0254 | 98.7 | 102 | 51.0-147 | | | 3.02 | 20 |
| Chloroform | 0.0250 | 0.0252 | 0.0256 | 101 | 102 | 73.0-123 | | | 1.39 | 20 |
| Chloromethane | 0.0250 | 0.0227 | 0.0235 | 90.7 | 94.1 | 51.0-138 | | | 3.71 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0261 | 0.0270 | 104 | 108 | 72.0-124 | | | 3.14 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0264 | 0.0270 | 106 | 108 | 78.0-120 | | | 2.16 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0238 | 0.0235 | 95.3 | 93.9 | 65.0-126 | | | 1.44 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0296 | 0.0300 | 118 | 120 | 78.0-122 | | | 1.42 | 20 |
| Dibromomethane | 0.0250 | 0.0250 | 0.0251 | 99.9 | 100 | 79.0-120 | | | 0.440 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0251 | 0.0261 | 101 | 104 | 80.0-120 | | | 3.54 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0261 | 0.0270 | 104 | 108 | 72.0-123 | | | 3.65 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0264 | 0.0273 | 106 | 109 | 77.0-120 | | | 3.01 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0266 | 0.0273 | 106 | 109 | 49.0-155 | | | 2.87 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0264 | 0.0252 | 105 | 101 | 68.0-126 | | | 4.53 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0258 | 0.0263 | 103 | 105 | 70.0-128 | | | 2.03 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0263 | 0.0267 | 105 | 107 | 69.0-128 | | | 1.41 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0242 | 0.0250 | 96.9 | 99.8 | 63.0-131 | | | 3.00 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0256 | 0.0263 | 103 | 105 | 74.0-123 | | | 2.56 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0258 | 0.0269 | 103 | 108 | 72.0-122 | | | 4.15 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0257 | 0.0267 | 103 | 107 | 75.0-126 | | | 4.15 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0247 | 0.0262 | 99.0 | 105 | 72.0-130 | | | 5.60 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0285 | 0.0288 | 114 | 115 | 80.0-121 | | | 0.930 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0311 | 0.0319 | 124 | 128 | 80.0-125 | | J4 | 2.41 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0301 | 0.0304 | 121 | 121 | 75.0-129 | | | 0.730 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0180 | 0.0186 | 71.9 | 74.4 | 60.0-129 | | | 3.54 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0225 | 0.0230 | 90.2 | 91.8 | 62.0-133 | | | 1.85 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3253788-1 09/24/17 00:04 • (LCSD) R3253788-2 09/24/17 00:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0268 | 0.0275 | 107 | 110 | 77.0-120 | | | 2.43 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0261 | 0.0285 | 104 | 114 | 68.0-128 | | | 8.93 | 20 |
| 2-Hexanone | 0.125 | 0.127 | 0.116 | 102 | 92.7 | 61.0-143 | | | 9.26 | 20 |
| Isopropylbenzene | 0.0250 | 0.0258 | 0.0265 | 103 | 106 | 75.0-120 | | | 2.54 | 20 |
| n-Hexane | 0.0250 | 0.0238 | 0.0247 | 95.0 | 98.9 | 57.0-125 | | | 3.98 | 20 |
| Iodomethane | 0.125 | 0.128 | 0.132 | 102 | 106 | 67.0-132 | | | 3.37 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0268 | 0.0283 | 107 | 113 | 74.0-125 | | | 5.62 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.113 | 0.102 | 90.6 | 81.4 | 37.0-159 | | | 10.7 | 20 |
| Methylene Chloride | 0.0250 | 0.0239 | 0.0245 | 95.5 | 98.0 | 67.0-123 | | | 2.59 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.109 | 0.106 | 87.6 | 84.7 | 60.0-144 | | | 3.37 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0218 | 0.0215 | 87.2 | 86.0 | 66.0-125 | | | 1.40 | 20 |
| Naphthalene | 0.0250 | 0.0253 | 0.0260 | 101 | 104 | 64.0-125 | | | 2.70 | 20 |
| n-Propylbenzene | 0.0250 | 0.0265 | 0.0271 | 106 | 109 | 78.0-120 | | | 2.45 | 20 |
| Styrene | 0.0250 | 0.0283 | 0.0290 | 113 | 116 | 78.0-124 | | | 2.43 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0247 | 0.0248 | 98.8 | 99.4 | 74.0-124 | | | 0.580 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0250 | 0.0248 | 99.9 | 99.0 | 73.0-120 | | | 0.920 | 20 |
| Tetrachloroethene | 0.0250 | 0.0299 | 0.0305 | 120 | 122 | 70.0-127 | | | 1.90 | 20 |
| Toluene | 0.0250 | 0.0263 | 0.0272 | 105 | 109 | 77.0-120 | | | 3.55 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0220 | 0.0226 | 88.1 | 90.3 | 64.0-135 | | | 2.47 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0271 | 0.0284 | 108 | 113 | 68.0-126 | | | 4.62 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0257 | 0.0267 | 103 | 107 | 70.0-127 | | | 3.99 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0232 | 0.0240 | 92.7 | 96.1 | 69.0-125 | | | 3.62 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0276 | 0.0276 | 110 | 110 | 78.0-120 | | | 0.000 | 20 |
| Trichloroethene | 0.0250 | 0.0258 | 0.0268 | 103 | 107 | 79.0-120 | | | 3.78 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0244 | 0.0252 | 97.6 | 101 | 59.0-136 | | | 3.14 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0255 | 0.0247 | 102 | 98.7 | 73.0-124 | | | 3.09 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0234 | 0.0241 | 93.6 | 96.5 | 76.0-120 | | | 3.05 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0253 | 0.0259 | 101 | 104 | 75.0-120 | | | 2.54 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0262 | 0.0270 | 105 | 108 | 75.0-120 | | | 3.01 | 20 |
| Vinyl chloride | 0.0250 | 0.0253 | 0.0263 | 101 | 105 | 63.0-134 | | | 4.09 | 20 |
| Xylenes, Total | 0.0750 | 0.0804 | 0.0825 | 107 | 110 | 77.0-120 | | | 2.58 | 20 |
| Vinyl acetate | 0.125 | 0.141 | 0.141 | 113 | 113 | 58.0-156 | | | 0.380 | 20 |
| *(S) Toluene-d8* | | | | *113* | *112* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *102* | *101* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *108* | *108* | *64.0-132* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3253753-3 09/29/17 12:41

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3253753-3 09/29/17 12:41

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *116* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *110* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3253753-1 09/29/17 10:41 • (LCSD) R3253753-2 09/29/17 11:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0866 | 0.0631 | 69.3 | 50.4 | 11.0-160 | | J3 | 31.4 | 23 |
| Acrylonitrile | 0.125 | 0.100 | 0.0879 | 80.1 | 70.3 | 61.0-143 | | | 13.0 | 20 |
| Benzene | 0.0250 | 0.0242 | 0.0232 | 96.8 | 92.9 | 71.0-124 | | | 4.14 | 20 |
| Bromobenzene | 0.0250 | 0.0253 | 0.0250 | 101 | 100 | 78.0-120 | | | 1.29 | 20 |
| Bromodichloromethane | 0.0250 | 0.0251 | 0.0245 | 101 | 98.2 | 75.0-120 | | | 2.33 | 20 |
| Bromoform | 0.0250 | 0.0275 | 0.0258 | 110 | 103 | 65.0-133 | | | 6.39 | 20 |
| Bromochloromethane | 0.0250 | 0.0270 | 0.0256 | 108 | 103 | 80.0-121 | | | 5.13 | 20 |
| Bromomethane | 0.0250 | 0.0212 | 0.0201 | 84.9 | 80.4 | 26.0-160 | | | 5.36 | 20 |
| n-Butylbenzene | 0.0250 | 0.0242 | 0.0232 | 96.7 | 92.7 | 73.0-126 | | | 4.32 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0255 | 0.0246 | 102 | 98.5 | 75.0-121 | | | 3.62 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0252 | 0.0243 | 101 | 97.0 | 74.0-122 | | | 3.68 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0218 | 0.0211 | 87.1 | 84.2 | 66.0-123 | | | 3.40 | 20 |
| Carbon disulfide | 0.0250 | 0.0254 | 0.0245 | 102 | 98.0 | 53.0-130 | | | 3.77 | 20 |
| Chlorobenzene | 0.0250 | 0.0282 | 0.0272 | 113 | 109 | 79.0-121 | | | 3.77 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0273 | 0.0255 | 109 | 102 | 74.0-128 | | | 6.68 | 20 |
| Chloroethane | 0.0250 | 0.0229 | 0.0217 | 91.6 | 86.8 | 51.0-147 | | | 5.40 | 20 |
| Chloroform | 0.0250 | 0.0241 | 0.0233 | 96.5 | 93.3 | 73.0-123 | | | 3.37 | 20 |
| Chloromethane | 0.0250 | 0.0207 | 0.0196 | 82.9 | 78.3 | 51.0-138 | | | 5.66 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0256 | 0.0254 | 102 | 102 | 72.0-124 | | | 0.720 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0256 | 0.0253 | 102 | 101 | 78.0-120 | | | 1.05 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0215 | 0.0209 | 86.0 | 83.8 | 65.0-126 | | | 2.68 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0294 | 0.0278 | 118 | 111 | 78.0-122 | | | 5.60 | 20 |
| Dibromomethane | 0.0250 | 0.0231 | 0.0229 | 92.2 | 91.8 | 79.0-120 | | | 0.490 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0243 | 0.0243 | 97.2 | 97.3 | 80.0-120 | | | 0.0800 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0254 | 0.0250 | 102 | 99.9 | 72.0-123 | | | 1.57 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0253 | 0.0253 | 101 | 101 | 77.0-120 | | | 0.0200 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0224 | 0.0214 | 89.5 | 85.4 | 49.0-155 | | | 4.61 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0226 | 0.0212 | 90.4 | 85.0 | 68.0-126 | | | 6.23 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0251 | 0.0244 | 101 | 97.7 | 70.0-128 | | | 2.89 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0249 | 0.0233 | 99.5 | 93.2 | 69.0-128 | | | 6.54 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0242 | 0.0233 | 96.8 | 93.1 | 63.0-131 | | | 3.99 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0251 | 0.0238 | 100 | 95.4 | 74.0-123 | | | 5.18 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0257 | 0.0252 | 103 | 101 | 72.0-122 | | | 2.16 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0245 | 0.0246 | 97.9 | 98.5 | 75.0-126 | | | 0.660 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0249 | 0.0235 | 99.5 | 94.1 | 72.0-130 | | | 5.66 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0283 | 0.0273 | 113 | 109 | 80.0-121 | | | 3.41 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0313 | 0.0303 | 125 | 121 | 80.0-125 | | | 3.12 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0301 | 0.0283 | 120 | 113 | 75.0-129 | | | 6.25 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0177 | 0.0174 | 70.8 | 69.6 | 60.0-129 | | | 1.65 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0218 | 0.0205 | 87.0 | 82.0 | 62.0-133 | | | 6.01 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3253753-1 09/29/17 10:41 • (LCSD) R3253753-2 09/29/17 11:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0275 | 0.0265 | 110 | 106 | 77.0-120 | | | 3.50 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0250 | 0.0236 | 99.8 | 94.4 | 68.0-128 | | | 5.62 | 20 |
| 2-Hexanone | 0.125 | 0.107 | 0.105 | 86.0 | 83.8 | 61.0-143 | | | 2.51 | 20 |
| Isopropylbenzene | 0.0250 | 0.0254 | 0.0249 | 102 | 99.6 | 75.0-120 | | | 2.01 | 20 |
| n-Hexane | 0.0250 | 0.0237 | 0.0222 | 94.8 | 88.9 | 57.0-125 | | | 6.44 | 20 |
| Iodomethane | 0.125 | 0.126 | 0.123 | 101 | 98.1 | 67.0-132 | | | 3.06 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0263 | 0.0255 | 105 | 102 | 74.0-125 | | | 2.85 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0901 | 0.0810 | 72.1 | 64.8 | 37.0-159 | | | 10.7 | 20 |
| Methylene Chloride | 0.0250 | 0.0240 | 0.0231 | 95.8 | 92.5 | 67.0-123 | | | 3.56 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.0987 | 0.0936 | 79.0 | 74.9 | 60.0-144 | | | 5.30 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0201 | 0.0193 | 80.2 | 77.3 | 66.0-125 | | | 3.78 | 20 |
| Naphthalene | 0.0250 | 0.0235 | 0.0233 | 94.0 | 93.1 | 64.0-125 | | | 0.960 | 20 |
| n-Propylbenzene | 0.0250 | 0.0260 | 0.0253 | 104 | 101 | 78.0-120 | | | 2.74 | 20 |
| Styrene | 0.0250 | 0.0282 | 0.0287 | 113 | 115 | 78.0-124 | | | 1.72 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0250 | 0.0238 | 100 | 95.3 | 74.0-124 | | | 4.80 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0236 | 0.0228 | 94.2 | 91.1 | 73.0-120 | | | 3.36 | 20 |
| Tetrachloroethene | 0.0250 | 0.0304 | 0.0292 | 122 | 117 | 70.0-127 | | | 4.02 | 20 |
| Toluene | 0.0250 | 0.0271 | 0.0262 | 108 | 105 | 77.0-120 | | | 3.10 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0215 | 0.0209 | 85.8 | 83.5 | 64.0-135 | | | 2.78 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0254 | 0.0256 | 102 | 102 | 68.0-126 | | | 0.630 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0240 | 0.0238 | 95.9 | 95.3 | 70.0-127 | | | 0.580 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0227 | 0.0216 | 90.9 | 86.3 | 69.0-125 | | | 5.18 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0276 | 0.0264 | 110 | 105 | 78.0-120 | | | 4.53 | 20 |
| Trichloroethene | 0.0250 | 0.0250 | 0.0245 | 99.9 | 97.9 | 79.0-120 | | | 2.05 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0222 | 0.0217 | 88.8 | 87.0 | 59.0-136 | | | 2.06 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0238 | 0.0221 | 95.0 | 88.3 | 73.0-124 | | | 7.34 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0226 | 0.0224 | 90.5 | 89.6 | 76.0-120 | | | 1.06 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0246 | 0.0241 | 98.2 | 96.6 | 75.0-120 | | | 1.68 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0258 | 0.0249 | 103 | 99.7 | 75.0-120 | | | 3.34 | 20 |
| Vinyl chloride | 0.0250 | 0.0231 | 0.0220 | 92.3 | 88.2 | 63.0-134 | | | 4.62 | 20 |
| Xylenes, Total | 0.0750 | 0.0821 | 0.0790 | 109 | 105 | 77.0-120 | | | 3.85 | 20 |
| Vinyl acetate | 0.125 | 0.128 | 0.121 | 103 | 96.9 | 58.0-156 | | | 5.75 | 20 |
| *(S) Toluene-d8* | | | | *118* | *117* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *103* | *99.3* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *107* | *108* | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3253957-2 09/27/17 01:14

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3253957-2 09/27/17 01:14

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | 0.525 | J | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | 0.230 | J | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | 0.238 | J | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *92.1* | | | *80.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3253957-1 09/27/17 00:30

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 125 | 141 | 113 | 10.0-160 | |
| Acrylonitrile | 125 | 143 | 115 | 60.0-142 | |
| Benzene | 25.0 | 26.4 | 106 | 69.0-123 | |
| Bromobenzene | 25.0 | 24.2 | 96.8 | 79.0-120 | |
| Bromodichloromethane | 25.0 | 24.6 | 98.5 | 76.0-120 | |
| Bromochloromethane | 25.0 | 26.4 | 105 | 76.0-122 | |
| Bromoform | 25.0 | 25.0 | 100 | 67.0-132 | |
| Bromomethane | 25.0 | 32.0 | 128 | 18.0-160 | |
| n-Butylbenzene | 25.0 | 27.8 | 111 | 72.0-126 | |
| sec-Butylbenzene | 25.0 | 27.4 | 109 | 74.0-121 | |
| tert-Butylbenzene | 25.0 | 26.4 | 106 | 75.0-122 | |
| Carbon disulfide | 25.0 | 26.6 | 106 | 55.0-127 | |
| Carbon tetrachloride | 25.0 | 27.1 | 108 | 63.0-122 | |
| Chlorobenzene | 25.0 | 25.7 | 103 | 79.0-121 | |
| Chlorodibromomethane | 25.0 | 26.4 | 106 | 75.0-125 | |
| Chloroethane | 25.0 | 33.5 | 134 | 47.0-152 | |
| Chloroform | 25.0 | 26.9 | 108 | 72.0-121 | |
| Chloromethane | 25.0 | 28.5 | 114 | 48.0-139 | |
| 2-Chlorotoluene | 25.0 | 25.4 | 101 | 74.0-122 | |
| 4-Chlorotoluene | 25.0 | 25.1 | 100 | 79.0-120 | |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 25.7 | 103 | 64.0-127 | |
| 1,2-Dibromoethane | 25.0 | 25.5 | 102 | 77.0-123 | |
| Dibromomethane | 25.0 | 25.9 | 103 | 78.0-120 | |
| 1,2-Dichlorobenzene | 25.0 | 26.0 | 104 | 80.0-120 | |
| 1,3-Dichlorobenzene | 25.0 | 25.2 | 101 | 72.0-123 | |
| 1,4-Dichlorobenzene | 25.0 | 25.4 | 102 | 77.0-120 | |
| Dichlorodifluoromethane | 25.0 | 38.1 | 152 | 49.0-155 | |
| 1,1-Dichloroethane | 25.0 | 27.0 | 108 | 70.0-126 | |
| 1,2-Dichloroethane | 25.0 | 26.5 | 106 | 67.0-126 | |
| 1,1-Dichloroethene | 25.0 | 27.2 | 109 | 64.0-129 | |
| cis-1,2-Dichloroethene | 25.0 | 26.8 | 107 | 73.0-120 | |
| trans-1,2-Dichloroethene | 25.0 | 27.2 | 109 | 71.0-121 | |
| 1,2-Dichloropropane | 25.0 | 25.4 | 102 | 75.0-125 | |
| 1,1-Dichloropropene | 25.0 | 28.8 | 115 | 71.0-129 | |
| 1,3-Dichloropropane | 25.0 | 26.2 | 105 | 80.0-121 | |
| cis-1,3-Dichloropropene | 25.0 | 26.4 | 106 | 79.0-123 | |
| trans-1,3-Dichloropropene | 25.0 | 25.7 | 103 | 74.0-127 | |
| trans-1,4-Dichloro-2-butene | 25.0 | 20.2 | 80.9 | 55.0-134 | |
| 2,2-Dichloropropane | 25.0 | 28.8 | 115 | 60.0-125 | |
| Di-isopropyl ether | 25.0 | 25.6 | 102 | 59.0-133 | |

## Laboratory Control Sample (LCS)

(LCS) R3253957-1 09/27/17 00:30

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 26.0 | 104 | 77.0-120 | |
| Hexachloro-1,3-butadiene | 25.0 | 27.0 | 108 | 64.0-131 | |
| 2-Hexanone | 125 | 135 | 108 | 58.0-147 | |
| n-Hexane | 25.0 | 28.7 | 115 | 56.0-124 | |
| Iodomethane | 125 | 139 | 111 | 57.0-140 | |
| Isopropylbenzene | 25.0 | 25.4 | 102 | 75.0-120 | |
| p-Isopropyltoluene | 25.0 | 27.4 | 109 | 74.0-126 | |
| 2-Butanone (MEK) | 125 | 129 | 103 | 37.0-158 | |
| Methylene Chloride | 25.0 | 26.0 | 104 | 66.0-121 | |
| 4-Methyl-2-pentanone (MIBK) | 125 | 133 | 106 | 59.0-143 | |
| Methyl tert-butyl ether | 25.0 | 26.1 | 104 | 64.0-123 | |
| Naphthalene | 25.0 | 25.1 | 100 | 62.0-128 | |
| n-Propylbenzene | 25.0 | 25.4 | 101 | 79.0-120 | |
| Styrene | 25.0 | 24.9 | 99.7 | 78.0-124 | |
| 1,1,1,2-Tetrachloroethane | 25.0 | 25.8 | 103 | 75.0-122 | |
| 1,1,2,2-Tetrachloroethane | 25.0 | 23.4 | 93.6 | 71.0-122 | |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 30.8 | 123 | 61.0-136 | |
| Tetrachloroethene | 25.0 | 25.5 | 102 | 70.0-127 | |
| Toluene | 25.0 | 25.4 | 102 | 77.0-120 | |
| 1,2,3-Trichlorobenzene | 25.0 | 25.9 | 104 | 61.0-133 | |
| 1,2,4-Trichlorobenzene | 25.0 | 25.5 | 102 | 69.0-129 | |
| 1,1,1-Trichloroethane | 25.0 | 27.4 | 110 | 68.0-122 | |
| 1,1,2-Trichloroethane | 25.0 | 25.1 | 100 | 78.0-120 | |
| Trichloroethene | 25.0 | 26.5 | 106 | 78.0-120 | |
| Trichlorofluoromethane | 25.0 | 32.1 | 129 | 56.0-137 | |
| 1,2,3-Trichloropropane | 25.0 | 24.3 | 97.2 | 72.0-124 | |
| 1,2,4-Trimethylbenzene | 25.0 | 25.0 | 100 | 75.0-120 | |
| 1,2,3-Trimethylbenzene | 25.0 | 28.0 | 112 | 75.0-120 | |
| 1,3,5-Trimethylbenzene | 25.0 | 25.6 | 102 | 75.0-120 | |
| Vinyl acetate | 125 | 143 | 115 | 46.0-160 | |
| Vinyl chloride | 25.0 | 31.5 | 126 | 64.0-133 | |
| Xylenes, Total | 75.0 | 76.8 | 102 | 77.0-120 | |
| *(S) Toluene-d8* | | | *102* | *80.0-120* | |
| *(S) Dibromofluoromethane* | | | *103* | *76.0-123* | |
| *(S) 4-Bromofluorobenzene* | | | *95.3* | *80.0-120* | |

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

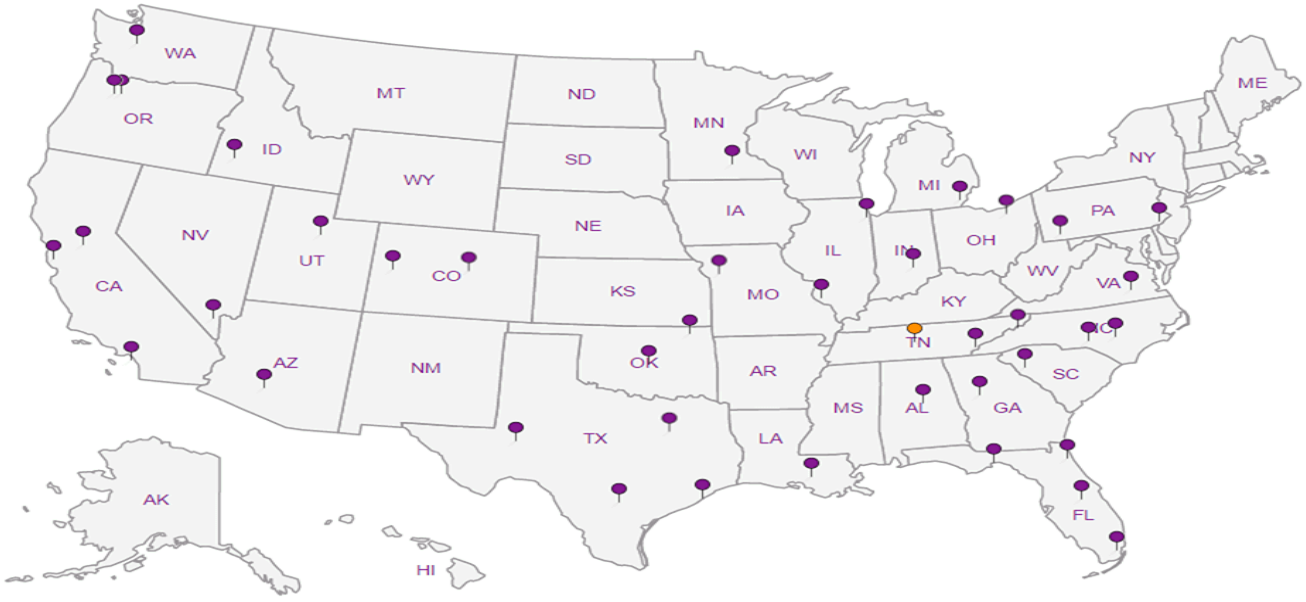
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2oz Clr-NoPres TS HCl | NWTPHGX 40ml/NaHS04/Syr/MeOH | VOC 8260C 2oz Clr-NoPres 40 ml/HCl | VOC 8260C 40ml/NaHS04/Syr/MeOH | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-915-80 | GRAB | SS | 80 | 9/20/17 | 1430 | 5 | X | | | X | | -01 |
| B-221-16 | | SS | 16 | | 1450 | 5 | X | | | X | | -02 |
| B-221-22 | | SS | 22 | | 1455 | 5 | X | | | X | | -03 |
| B-221-33 | | SS | 33 | | 1515 | 5 | X | | | X | | -04 |
| B-221-37 | | SS | 37 | | 1520 | 5 | X | | | X | | -05 |
| B-221-45 | | SS | 45 | | 1540 | 5 | X | | | X | | -06 |
| B-221-50 | | SS | 50 | | 1545 | 5 | X | | | X | | -07 |
| MW-138-092117 | | GW SS | 110 | 9/21/17 | 10:10 | 6 | | X | X | | | -08 |
| B-221-60 | | SS | 60 | 9/20/17 | 1720 | 5 | X | | | X | | -09 |
| B-221-70 | | SS | 70 | 9/21/17 | 08:50 | 5 | X | | | X | | -10 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ___ Temp ___

Flow ___ Other ___

Samples returned via:
__ UPS __ FedEx __ Courier ___

Tracking #

Trip Blank Received: (Yes) / No
HCL / MeoH
TBR

Temp: 0.9 °C Bottles Received: 81

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Sample Receipt Checklist
COC Seal Present/Intact: NP (Y) N
COC Signed/Accurate: (Y) N
Bottles arrive intact: (Y) N
Correct bottles used: (Y) N
Sufficient volume sent: (Y) N
If Applicable
VOA Zero Headspace: (Y) N
Preservation Correct/Checked: (Y) N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 9/21/17 | 1430 | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) |
| | | | |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | |

Date: 9-22-17 Time: 0845

Chain of Custody Page 1 of 2

ESC LABORATORY SCIENCES
A subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 938636
G209

Acctnum: PESENVSWA
Template: T127855
Prelogin: P618512
TSR: 110 - Brian Ford
PB:
Shipped Via:

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected: SEATTLE, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413 001 02 002

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON McKERNAN

Site/Facility ID # 1413 001 02 002

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2ozClr-NoPres TS | NWTPHGX 40ml/NaHS04/Syr/MeOH | VOC 8260C ~~2ozClr-NoPres~~ 40 mL | VOC 8260C 40ml/NaHS04/Syr/MeOH | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-222-17 | GRAB | SS | 17 | 9/21/17 | 1135 | 5 | X | | | X | | -11 |
| B-222-25 | | SS | 25 | | 1155 | 5 | X | | | X | | -12 |
| B-222-34 | | SS | 34 | | 1310 | 5 | X | | | X | | -13 |
| B-222-42 | | SS | 42 | | 1300 | 5 | X | | | X | | -14 |
| B-222-50 | ↓ | SS | 50 | ↓ | 1255 | 5 | X | | | X | | -15 |
| B-916-30 | ↓ | SS | 30 | ↓ | 1330 | 5 | X | | | X | | -16 |
| TRIP BLANK-092117 | NA | ~~NA~~ SS | NA | 5/15/17 | NA | 1 | | | X | | | -17 |
| | | SS | | | | | | | | | | |
| | | SS | | | | | | | | | | |
| | | SS | | | | | | | | | | |

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 938636

Table #

Acctnum: PESENVSWA

Template: T127855

Prelogin: P618512

TSR: 110 - Brian Ford

PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other ___

Remarks:

pH ___ Temp ___

Flow ___ Other ___

Samples returned via:
__ UPS __ FedEx __ Courier ___

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| SHANNON McKERNAN | 9/21/17 | 1430 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| | | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | |

Trip Blank Received: (Yes) / No
HCL / MeoH
TBR

Temp: 0.9 °C Bottles Received: 81

Date: 9-22-17 Time: 0945

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

# MEMORANDUM

**TO:** Project File **DATE:** October 17, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** September 20-21, 2017 – Soil and Groundwater Samples

**LAB:** ESC Lab ID L938636

---

Fifteen (15) soil samples including two field duplicates, one (1) groundwater sample, and a trip blank were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 20-21, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology; and
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L938636. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L938636 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

### Sample Collection and Preservation

Samples were collected on September 20-21, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 0.9 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

### Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. All holding time criteria were met.

### Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, trans-1,4-dichloro-2-butene, 2,2-dichloropropane, di-isopropyl ether, n-hexane, and 4-methyl-2-pentanone (MIBK) associated with analytical batch WG1026247 (analyzed on October 1, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All**

**associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone, acrylonitrile, bromomethane, 2-hexanone, 2-butanone, 4-methyl-2-pentanone, and methyl tert-butyl ether associated with analytical batch WG1026247 (analyzed on September 29, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for 2,2-dichloropropane, and tetrachloroethene associated with analytical batch WG1024032 (analyzed on September 24, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for 2,2-dichloropropane associated with analytical batch WG1024032 (analyzed on September 24, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

**Method Blank Results**

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at or above the reported detection limits (RDLs) with the following discussion:

- Batch WG1024893 (for waters): Hexachloro-1,3-butadiene, naphthalene and 1,2,3-trichlorobenzene were detected above the method detection limit (MDL) and below the RDL in the method blank. No action was taken since these compounds were not detected in the associated sample.

*NWTPH-Gx Method:*
Laboratory method blank was included with the analytical batch per method requirement. The target analyte (gasoline) was not detected in the method blank at or above the RDL.

*Total Solids by SM 2540 G 2011:*
Laboratory method blank was included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was collected and submitted for VOC analysis. The target analytes were not detected in the trip blank at or above the RDL.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Two pairs of field duplicate (samples B-221-37/ B-915-80 and samples B-222-50/B-916-30) results are comparable for VOCs and less than 30% RPD with the following exceptions:

- Field duplicate sample pair (B-222-50 and B-916-30) RPDs are greater than 30% for cis-1,2-dichloroethene, and trichloroethene. **Sample field duplicate (B-222-50 and B-916-30) results for cis-1,2-dichloroethene and trichloroethene are estimated and qualified (J) due to poor field precision.**

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*NWTPH-Gx Method:*
Laboratory duplicate samples were not analyzed. Refer to LCS/LCSD and MS/MSD results for precision data on waters.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on two client samples B-221-16 and B-221-45. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS, LCS/LCSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS and LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS and LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters with the following exceptions:

- LCS/LCSD (Batch WG1026247 for soils) RPD result for acetone is above laboratory acceptance criteria (20%) and qualified by the laboratory (J3). No action was taken on this basis as LCS/LCSD percent recovery results are recovered wide but are within control limits.

- LCSD (Batch WG1024032 for soils) recovery for cis-1,3-dichloropropene is above laboratory acceptance criteria, and qualified by the laboratory (J4). No action was necessary as this compound was not detected in the associated samples.

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for waters.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD results for accuracy and precision water and soil data.

*NWTPH-Gx Method:*
MS/MSDs were analyzed by the NWTPH-Gx method on a non-client sample within the analytical batch. The MS/MSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for waters with the following exception:

- MSD (Batch WG1024796 for waters) spike recovery is above laboratory control criteria and qualified by the laboratory (J5) to indicate that there was matrix interference. Gasoline MS/MSD RPD is above laboratory criteria and qualified by the laboratory (J3). No action is taken since the spike was performed on a non-client sample and LCS/LCSD RPD and percent recoveries are acceptable.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following exceptions:

- *USEPA Method 8260C:* VOC results for soil samples B-221-37 including field duplicate B-915-80, B-221-16, B-221-22, B-221-33, B-221-45, B-221-50, B-221-60, and B-222-50

are footnoted by ESC to indicate that the target compound(s) were too high to run the sample at a lower dilution. No action is taken other than to note this.

- *USEPA Method 8260C:* VOC result for water sample MW-138-092117 is footnoted to indicate that due to sediment in the vial the sample was diluted two fold. No action is taken other than to note this.

**Compound Identification and Quantitation Limits**

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

**Data Assessment**

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.3 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | UJ J0 J3 | 1.15 | 5.73 | 100 | 10/01/2017 15:02 | WG1026247 |
| Acrylonitrile | U | | 0.205 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |
| Benzene | U | | 0.0309 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Bromobenzene | U | | 0.0325 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Bromodichloromethane | U | | 0.0291 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Bromochloromethane | U | | 0.0447 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| Bromoform | U | | 0.0486 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Bromomethane | U | | 0.154 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| n-Butylbenzene | U | | 0.0296 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| sec-Butylbenzene | U | | 0.0230 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| tert-Butylbenzene | U | | 0.0236 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Carbon disulfide | U | | 0.0253 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Carbon tetrachloride | U | | 0.0376 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Chlorobenzene | U | | 0.0243 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Chlorodibromomethane | U | | 0.0428 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Chloroethane | U | | 0.108 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| Chloroform | U | | 0.0262 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| Chloromethane | U | | 0.0430 | 0.287 | 100 | 10/01/2017 15:02 | WG1026247 |
| 2-Chlorotoluene | U | | 0.0345 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 4-Chlorotoluene | U | | 0.0275 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.120 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.0393 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Dibromomethane | U | | 0.0438 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.0350 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.0274 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.0259 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.0817 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.0228 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.0304 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.0347 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| cis-1,2-Dichloroethene | 0.342 | | 0.0269 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.0303 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.0410 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.0363 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.0237 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.0300 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.0306 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U | UJ J0 | 0.0892 | 0.287 | 100 | 10/01/2017 15:02 | WG1026247 |
| 2,2-Dichloropropane | U | UJ J0 | 0.0320 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Di-isopropyl ether | U | UJ J0 | 0.0284 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Ethylbenzene | U | | 0.0340 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.0392 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 2-Hexanone | U | | 0.157 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |
| n-Hexane | U | UJ J0 | 0.0332 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |
| Iodomethane | U | | 0.290 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |
| Isopropylbenzene | U | | 0.0279 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| p-Isopropyltoluene | U | | 0.0234 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 2-Butanone (MEK) | U | | 0.536 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |
| Methylene Chloride | U | | 0.115 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U | UJ J0 | 0.215 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |

JC 10/17/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0243 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Naphthalene | U | | 0.115 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| n-Propylbenzene | U | | 0.0236 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Styrene | U | | 0.0268 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0303 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0418 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0418 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Tetrachloroethene | 7.54 | | 0.0316 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Toluene | U | | 0.0497 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | 0.0351 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | 0.0445 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1,1-Trichloroethane | U | | 0.0328 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,1,2-Trichloroethane | U | | 0.0317 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Trichloroethene | 0.400 | | 0.0320 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Trichlorofluoromethane | U | | 0.0438 | 0.573 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2,3-Trichloropropane | U | | 0.0849 | 0.287 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | 0.0242 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | 0.0329 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | 0.0305 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Vinyl acetate | U | | 0.274 | 1.15 | 100 | 10/01/2017 15:02 | WG1026247 |
| Vinyl chloride | U | | 0.0334 | 0.115 | 100 | 10/01/2017 15:02 | WG1026247 |
| Xylenes, Total | U | | 0.0800 | 0.344 | 100 | 10/01/2017 15:02 | WG1026247 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *10/01/2017 15:02* | WG1026247 |
| *(S) Dibromofluoromethane* | *99.2* | | | *74.0-131* | | *10/01/2017 15:02* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *10/01/2017 15:02* | WG1026247 |

**Sample Narrative:**

L938636-01 WG1026247: Target compound too high to run at a lower dilution.

JC 10/17/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.3 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 0.293 | 1.46 | 25 | 10/01/2017 14:42 | WG1026247 |
| Acrylonitrile | U | | 0.0525 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Benzene | U | | 0.00791 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Bromobenzene | U | | 0.00832 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Bromodichloromethane | U | | 0.00744 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Bromochloromethane | U | | 0.0114 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| Bromoform | U | | 0.0124 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Bromomethane | U | | 0.0393 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| n-Butylbenzene | U | | 0.00756 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| sec-Butylbenzene | U | | 0.00588 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| tert-Butylbenzene | U | | 0.00603 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Carbon disulfide | U | | 0.00647 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Carbon tetrachloride | U | | 0.00961 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Chlorobenzene | U | | 0.00621 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Chlorodibromomethane | U | | 0.0109 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Chloroethane | U | | 0.0277 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| Chloroform | U | | 0.00670 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| Chloromethane | U | | 0.0110 | 0.0732 | 25 | 10/01/2017 14:42 | WG1026247 |
| 2-Chlorotoluene | U | | 0.00881 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 4-Chlorotoluene | U | | 0.00703 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0307 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.0101 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Dibromomethane | U | | 0.0112 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.00893 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.00701 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.00662 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.0209 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.00584 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.00776 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.00888 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| cis-1,2-Dichloroethene | 1.37 | | 0.00689 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.00773 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.0105 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.00928 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.00607 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.00768 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.00783 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.0227 | 0.0732 | 25 | 10/01/2017 14:42 | WG1026247 |
| 2,2-Dichloropropane | U UJ | J0 | 0.00818 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Di-isopropyl ether | U UJ | J0 | 0.00727 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Ethylbenzene | U | | 0.00869 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.0100 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 2-Hexanone | U | | 0.0401 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |
| n-Hexane | U UJ | J0 | 0.00850 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Iodomethane | U | | 0.0741 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Isopropylbenzene | U | | 0.00712 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| p-Isopropyltoluene | U | | 0.00598 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 2-Butanone (MEK) | U | | 0.137 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Methylene Chloride | U | | 0.0293 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.0551 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |

JC 10/17/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.00621 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Naphthalene | U | | 0.0293 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| n-Propylbenzene | U | | 0.00603 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Styrene | U | | 0.00686 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00773 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0107 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0107 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Tetrachloroethene | 0.539 | | 0.00809 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Toluene | U | | 0.0127 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | 0.00896 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | 0.0114 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1,1-Trichloroethane | U | | 0.00838 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,1,2-Trichloroethane | U | | 0.00811 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Trichloroethene | 0.250 | | 0.00818 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Trichlorofluoromethane | U | | 0.0112 | 0.146 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2,3-Trichloropropane | U | | 0.0217 | 0.0732 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | 0.00619 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | 0.00841 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | 0.00779 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Vinyl acetate | U | | 0.0701 | 0.293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Vinyl chloride | 0.0805 | | 0.00853 | 0.0293 | 25 | 10/01/2017 14:42 | WG1026247 |
| Xylenes, Total | U | | 0.0204 | 0.0879 | 25 | 10/01/2017 14:42 | WG1026247 |
| *(S) Toluene-d8* | *113* | | | *80.0-120* | | *10/01/2017 14:42* | WG1026247 |
| *(S) Dibromofluoromethane* | *98.9* | | | *74.0-131* | | *10/01/2017 14:42* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *10/01/2017 14:42* | WG1026247 |

**Sample Narrative:**

L938636-02 WG1026247: Target compound too high to run at a lower dilution.

JC 10/17/17

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.9 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 11.5 | 57.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Acrylonitrile | U UJ | J0 | 2.06 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Benzene | U | | 0.311 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Bromobenzene | U | | 0.327 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Bromodichloromethane | U | | 0.292 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Bromochloromethane | U | | 0.449 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Bromoform | U | | 0.488 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Bromomethane | U UJ | J0 | 1.54 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| n-Butylbenzene | U | | 0.297 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| sec-Butylbenzene | U | | 0.231 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| tert-Butylbenzene | U | | 0.237 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Carbon disulfide | U | | 0.254 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Carbon tetrachloride | U | | 0.377 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Chlorobenzene | U | | 0.244 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Chlorodibromomethane | U | | 0.429 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Chloroethane | U | | 1.09 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Chloroform | U | | 0.263 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Chloromethane | U | | 0.431 | 2.88 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 2-Chlorotoluene | U | | 0.346 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 4-Chlorotoluene | U | | 0.276 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.21 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.395 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Dibromomethane | U | | 0.439 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.351 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.275 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.260 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.820 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.229 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.305 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.349 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| cis-1,2-Dichloroethene | 2.56 | | 0.270 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.304 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.412 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.365 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.238 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.301 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.307 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U | | 0.895 | 2.88 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 2,2-Dichloropropane | U | | 0.321 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Di-isopropyl ether | U | | 0.285 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Ethylbenzene | U | | 0.342 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.393 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 2-Hexanone | U UJ | J0 | 1.58 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| n-Hexane | U | | 0.334 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Iodomethane | U | | 2.91 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Isopropylbenzene | U | | 0.280 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| p-Isopropyltoluene | U | | 0.235 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 2-Butanone (MEK) | U UJ | J0 | 5.38 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Methylene Chloride | U | | 1.15 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 2.16 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | UJ | J0 | 0.244 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Naphthalene | U | | | 1.15 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| n-Propylbenzene | U | | | 0.237 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Styrene | U | | | 0.269 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | | 0.304 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | | 0.420 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | | 0.420 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Tetrachloroethene | 25.8 | | | 0.318 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Toluene | U | | | 0.499 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | | 0.352 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | | 0.446 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1,1-Trichloroethane | U | | | 0.329 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,1,2-Trichloroethane | U | | | 0.319 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Trichloroethene | 0.984 | J | J | 0.321 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Trichlorofluoromethane | U | | | 0.439 | 5.75 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2,3-Trichloropropane | U | | | 0.852 | 2.88 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | | 0.243 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | | 0.330 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | | 0.306 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Vinyl acetate | U | | | 2.75 | 11.5 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Vinyl chloride | U | | | 0.335 | 1.15 | 1000 | 09/29/2017 19:48 | WG1026247 |
| Xylenes, Total | U | | | 0.803 | 3.45 | 1000 | 09/29/2017 19:48 | WG1026247 |
| *(S) Toluene-d8* | *116* | | | | *80.0-120* | | *09/29/2017 19:48* | WG1026247 |
| *(S) Dibromofluoromethane* | *99.6* | | | | *74.0-131* | | *09/29/2017 19:48* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *108* | | | | *64.0-132* | | *09/29/2017 19:48* | WG1026247 |

**Sample Narrative:**

L938636-03 WG1026247: Target compound too high to run at a lower dilution.

JC 10/17/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.3 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 11.2 | 56.0 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Acrylonitrile | U UJ | J0 | 2.00 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Benzene | U | | 0.302 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Bromobenzene | U | | 0.318 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Bromodichloromethane | U | | 0.284 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Bromochloromethane | U | | 0.437 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Bromoform | U | | 0.475 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Bromomethane | U UJ | J0 | 1.50 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| n-Butylbenzene | U | | 0.289 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| sec-Butylbenzene | U | | 0.225 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| tert-Butylbenzene | U | | 0.231 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Carbon disulfide | U | | 0.247 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Carbon tetrachloride | U | | 0.367 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Chlorobenzene | U | | 0.237 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Chlorodibromomethane | U | | 0.418 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Chloroethane | U | | 1.06 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Chloroform | U | | 0.256 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Chloromethane | U | | 0.420 | 2.80 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 2-Chlorotoluene | U | | 0.337 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 4-Chlorotoluene | U | | 0.269 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.18 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.384 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Dibromomethane | U | | 0.428 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.341 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.268 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.253 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.798 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.223 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.297 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.339 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| cis-1,2-Dichloroethene | 1.93 | | 0.263 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.296 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.401 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.355 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.232 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.293 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.299 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U | | 0.871 | 2.80 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 2,2-Dichloropropane | U | | 0.312 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Di-isopropyl ether | U | | 0.278 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Ethylbenzene | U | | 0.332 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.383 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 2-Hexanone | U UJ | J0 | 1.53 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |
| n-Hexane | U | | 0.325 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Iodomethane | U | | 2.83 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Isopropylbenzene | U | | 0.272 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| p-Isopropyltoluene | U | | 0.228 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 2-Butanone (MEK) | U UJ | J0 | 5.24 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Methylene Chloride | U | | 1.12 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 2.10 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |

JC 10/17/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | UJ | J0 | 0.237 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Naphthalene | U | | | 1.12 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| n-Propylbenzene | U | | | 0.231 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Styrene | U | | | 0.262 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | | 0.296 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | | 0.409 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | | 0.409 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Tetrachloroethene | 21.8 | | | 0.309 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Toluene | U | | | 0.486 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | | 0.343 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | | 0.434 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1,1-Trichloroethane | U | | | 0.320 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,1,2-Trichloroethane | U | | | 0.310 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Trichloroethene | 0.835 | J | J | 0.312 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Trichlorofluoromethane | U | | | 0.428 | 5.60 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2,3-Trichloropropane | U | | | 0.829 | 2.80 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | | 0.236 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | | 0.321 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | | 0.298 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Vinyl acetate | U | | | 2.68 | 11.2 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Vinyl chloride | U | | | 0.326 | 1.12 | 1000 | 09/29/2017 20:08 | WG1026247 |
| Xylenes, Total | U | | | 0.781 | 3.36 | 1000 | 09/29/2017 20:08 | WG1026247 |
| *(S) Toluene-d8* | *116* | | | | *80.0-120* | | *09/29/2017 20:08* | WG1026247 |
| *(S) Dibromofluoromethane* | *101* | | | | *74.0-131* | | *09/29/2017 20:08* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *111* | | | | *64.0-132* | | *09/29/2017 20:08* | WG1026247 |

**Sample Narrative:**

L938636-04 WG1026247: Target compound too high to run at a lower dilution.

JC 10/17/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.0 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 2.35 | 11.8 | 200 | 10/01/2017 15:21 | WG1026247 |
| Acrylonitrile | U | | 0.421 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |
| Benzene | U | | 0.0635 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Bromobenzene | U | | 0.0668 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Bromodichloromethane | U | | 0.0597 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Bromochloromethane | U | | 0.0917 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| Bromoform | U | | 0.0997 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Bromomethane | U | | 0.315 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| n-Butylbenzene | U | | 0.0607 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| sec-Butylbenzene | U | | 0.0473 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| tert-Butylbenzene | U | | 0.0484 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Carbon disulfide | U | | 0.0520 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Carbon tetrachloride | U | | 0.0771 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Chlorobenzene | U | | 0.0499 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Chlorodibromomethane | U | | 0.0877 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Chloroethane | U | | 0.222 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| Chloroform | U | | 0.0539 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| Chloromethane | U | | 0.0882 | 0.588 | 200 | 10/01/2017 15:21 | WG1026247 |
| 2-Chlorotoluene | U | | 0.0708 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 4-Chlorotoluene | U | | 0.0564 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.247 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.0807 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Dibromomethane | U | | 0.0898 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.0717 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.0562 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.0531 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.168 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.0468 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.0623 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.0713 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| cis-1,2-Dichloroethene | 0.438 | | 0.0553 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.0621 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.0842 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.0745 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.0487 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.0616 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.0628 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.183 | 0.588 | 200 | 10/01/2017 15:21 | WG1026247 |
| 2,2-Dichloropropane | U UJ | J0 | 0.0656 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Di-isopropyl ether | U UJ | J0 | 0.0583 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Ethylbenzene | U | | 0.0698 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.0804 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 2-Hexanone | U | | 0.322 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |
| n-Hexane | U UJ | J0 | 0.0682 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |
| Iodomethane | U | | 0.595 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |
| Isopropylbenzene | U | | 0.0571 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| p-Isopropyltoluene | U | | 0.0480 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 2-Butanone (MEK) | U | | 1.10 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |
| Methylene Chloride | U | | 0.235 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.442 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |

JC 10/17/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0499 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Naphthalene | U | | 0.235 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| n-Propylbenzene | U | | 0.0484 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Styrene | U | | 0.0550 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0621 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0858 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0858 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Tetrachloroethene | 9.02 | | 0.0649 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Toluene | U | | 0.102 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | 0.0720 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | 0.0912 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1,1-Trichloroethane | U | | 0.0673 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,1,2-Trichloroethane | U | | 0.0651 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Trichloroethene | 0.447 | | 0.0656 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Trichlorofluoromethane | U | | 0.0898 | 1.18 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2,3-Trichloropropane | U | | 0.174 | 0.588 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | 0.0496 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | 0.0675 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | 0.0626 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Vinyl acetate | U | | 0.562 | 2.35 | 200 | 10/01/2017 15:21 | WG1026247 |
| Vinyl chloride | U | | 0.0684 | 0.235 | 200 | 10/01/2017 15:21 | WG1026247 |
| Xylenes, Total | U | | 0.165 | 0.705 | 200 | 10/01/2017 15:21 | WG1026247 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *10/01/2017 15:21* | WG1026247 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *10/01/2017 15:21* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *10/01/2017 15:21* | WG1026247 |

Sample Narrative:

L938636-05 WG1026247: Target compound too high to run at a lower dilution.

JC 10/17/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.2 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 110 | 548 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Acrylonitrile | U UJ | J0 | 19.6 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Benzene | U | | 2.96 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Bromobenzene | U | | 3.11 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Bromodichloromethane | U | | 2.79 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Bromochloromethane | U | | 4.28 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Bromoform | U | | 4.65 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Bromomethane | U UJ | J0 | 14.7 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| n-Butylbenzene | U | | 2.83 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| sec-Butylbenzene | U | | 2.20 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| tert-Butylbenzene | U | | 2.26 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Carbon disulfide | U | | 2.42 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Carbon tetrachloride | U | | 3.60 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Chlorobenzene | U | | 2.33 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Chlorodibromomethane | U | | 4.09 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Chloroethane | U | | 10.4 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Chloroform | U | | 2.51 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Chloromethane | U | | 4.11 | 27.4 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 2-Chlorotoluene | U | | 3.30 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 4-Chlorotoluene | U | | 2.63 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 11.5 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2-Dibromoethane | U | | 3.76 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Dibromomethane | U | | 4.19 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 3.35 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 2.62 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 2.48 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Dichlorodifluoromethane | U | | 7.82 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1-Dichloroethane | U | | 2.18 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2-Dichloroethane | U | | 2.91 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1-Dichloroethene | U | | 3.32 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| cis-1,2-Dichloroethene | U | | 2.58 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 2.90 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2-Dichloropropane | U | | 3.93 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1-Dichloropropene | U | | 3.48 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,3-Dichloropropane | U | | 2.27 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 2.87 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 2.93 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U | | 8.53 | 27.4 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 2,2-Dichloropropane | U | | 3.06 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Di-isopropyl ether | U | | 2.72 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Ethylbenzene | U | | 3.26 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 3.75 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 2-Hexanone | U UJ | J0 | 15.0 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |
| n-Hexane | U | | 3.18 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Iodomethane | U | | 27.7 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Isopropylbenzene | U | | 2.67 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| p-Isopropyltoluene | U | | 2.24 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 2-Butanone (MEK) | U UJ | J0 | 51.3 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Methylene Chloride | U | | 11.0 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 20.6 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |

JC 10/17/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | UJ | J0 | 2.33 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Naphthalene | U | | | 11.0 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| n-Propylbenzene | U | | | 2.26 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Styrene | U | | | 2.57 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | | 2.90 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | | 4.00 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | | 4.00 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Tetrachloroethene | 8270 | | | 60.5 | 219 | 200000 | 10/01/2017 16:20 | WG1026247 |
| Toluene | U | | | 4.76 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | | 3.36 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | | 4.26 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1,1-Trichloroethane | U | | | 3.14 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,1,2-Trichloroethane | U | | | 3.04 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Trichloroethene | 4.43 | J | J | 3.06 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Trichlorofluoromethane | U | | | 4.19 | 54.8 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2,3-Trichloropropane | U | | | 8.13 | 27.4 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | | 2.31 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | | 3.15 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | | 2.92 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Vinyl acetate | U | | | 26.2 | 110 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Vinyl chloride | U | | | 3.19 | 11.0 | 10000 | 09/29/2017 20:47 | WG1026247 |
| Xylenes, Total | U | | | 7.66 | 32.9 | 10000 | 09/29/2017 20:47 | WG1026247 |
| *(S) Toluene-d8* | *108* | | | | *80.0-120* | | *10/01/2017 16:20* | WG1026247 |
| *(S) Toluene-d8* | *116* | | | | *80.0-120* | | *09/29/2017 20:47* | WG1026247 |
| *(S) Dibromofluoromethane* | *99.5* | | | | *74.0-131* | | *10/01/2017 16:20* | WG1026247 |
| *(S) Dibromofluoromethane* | *102* | | | | *74.0-131* | | *09/29/2017 20:47* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *110* | | | | *64.0-132* | | *09/29/2017 20:47* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *103* | | | | *64.0-132* | | *10/01/2017 16:20* | WG1026247 |

**Sample Narrative:**

L938636-06 WG1026247: Target compound too high to run at a lower dilution.

JC 10/17/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.9 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 5.44 | 27.2 | 500 | 10/01/2017 15:41 | WG1026247 |
| Acrylonitrile | U | | 0.973 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |
| Benzene | U | | 0.147 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Bromobenzene | U | | 0.154 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Bromodichloromethane | U | | 0.138 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Bromochloromethane | U | | 0.212 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| Bromoform | U | | 0.231 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Bromomethane | U | | 0.729 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| n-Butylbenzene | U | | 0.140 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| sec-Butylbenzene | U | | 0.109 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| tert-Butylbenzene | U | | 0.112 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Carbon disulfide | U | | 0.120 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Carbon tetrachloride | U | | 0.178 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Chlorobenzene | U | | 0.115 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Chlorodibromomethane | U | | 0.202 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Chloroethane | U | | 0.514 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| Chloroform | U | | 0.124 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| Chloromethane | U | | 0.204 | 1.36 | 500 | 10/01/2017 15:41 | WG1026247 |
| 2-Chlorotoluene | U | | 0.163 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 4-Chlorotoluene | U | | 0.131 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.571 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.187 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Dibromomethane | U | | 0.208 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.165 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.131 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.123 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.387 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.108 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.144 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.165 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| cis-1,2-Dichloroethene | 0.561 | | 0.128 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.144 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.195 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.172 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.113 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.142 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.146 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.423 | 1.36 | 500 | 10/01/2017 15:41 | WG1026247 |
| 2,2-Dichloropropane | U UJ | J0 | 0.152 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Di-isopropyl ether | U UJ | J0 | 0.135 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Ethylbenzene | U | | 0.161 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.186 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 2-Hexanone | U | | 0.745 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |
| n-Hexane | U UJ | J0 | 0.158 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |
| Iodomethane | U | | 1.37 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |
| Isopropylbenzene | U | | 0.133 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| p-Isopropyltoluene | U | | 0.111 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 2-Butanone (MEK) | U | | 2.54 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |
| Methylene Chloride | U | | 0.544 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 1.02 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |

JC 10/17/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.115 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Naphthalene | U | | 0.544 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| n-Propylbenzene | U | | 0.112 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Styrene | U | | 0.127 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | 0.144 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | 0.198 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.198 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Tetrachloroethene | 30.4 | | 0.150 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Toluene | U | | 0.236 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | 0.166 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | 0.211 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1,1-Trichloroethane | U | | 0.156 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,1,2-Trichloroethane | U | | 0.150 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Trichloroethene | 0.618 | | 0.152 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Trichlorofluoromethane | U | | 0.208 | 2.72 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2,3-Trichloropropane | U | | 0.402 | 1.36 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | 0.115 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | 0.157 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | 0.145 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Vinyl acetate | U | | 1.31 | 5.44 | 500 | 10/01/2017 15:41 | WG1026247 |
| Vinyl chloride | U | | 0.159 | 0.544 | 500 | 10/01/2017 15:41 | WG1026247 |
| Xylenes, Total | U | | 0.380 | 1.63 | 500 | 10/01/2017 15:41 | WG1026247 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *10/01/2017 15:41* | WG1026247 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *10/01/2017 15:41* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *10/01/2017 15:41* | WG1026247 |

Sample Narrative:

L938636-07 WG1026247: Target compound too high to run at a lower dilution.

JC 10/17/17

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 63.3 | J J | 31.6 | 100 | 1 | 09/27/2017 19:54 | WG1024796 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.8* | | | *77.0-122* | | *09/27/2017 19:54* | WG1024796 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 5.55 | J J | 2.10 | 50.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| Acrylonitrile | U | | 1.75 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| Benzene | U | | 0.179 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Bromobenzene | U | | 0.266 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Bromodichloromethane | U | | 0.160 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Bromochloromethane | U | | 0.290 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Bromoform | U | | 0.372 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Bromomethane | U | | 0.314 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| n-Butylbenzene | U | | 0.286 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| sec-Butylbenzene | U | | 0.268 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| tert-Butylbenzene | U | | 0.366 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Carbon disulfide | U | | 0.202 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Carbon tetrachloride | U | | 0.318 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Chlorobenzene | U | | 0.280 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Chlorodibromomethane | U | | 0.256 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Chloroethane | U | | 0.282 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Chloroform | U | | 0.172 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Chloromethane | U | | 0.306 | 2.50 | 2 | 09/27/2017 07:22 | WG1024893 |
| 2-Chlorotoluene | U | | 0.222 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 4-Chlorotoluene | U | | 0.194 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.650 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2-Dibromoethane | U | | 0.386 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Dibromomethane | U | | 0.234 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2-Dichlorobenzene | U | | 0.202 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,3-Dichlorobenzene | U | | 0.260 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,4-Dichlorobenzene | U | | 0.242 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Dichlorodifluoromethane | U | | 0.254 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1-Dichloroethane | U | | 0.228 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2-Dichloroethane | U | | 0.216 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1-Dichloroethene | U | | 0.376 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| cis-1,2-Dichloroethene | U | | 0.187 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| trans-1,2-Dichloroethene | U | | 0.304 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2-Dichloropropane | U | | 0.380 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1-Dichloropropene | U | | 0.256 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,3-Dichloropropane | U | | 0.294 | 2.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| cis-1,3-Dichloropropene | U | | 0.195 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| trans-1,3-Dichloropropene | U | | 0.444 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| trans-1,4-Dichloro-2-butene | U | | 0.514 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| 2,2-Dichloropropane | U | | 0.186 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Di-isopropyl ether | U | | 0.185 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Ethylbenzene | U | | 0.316 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Hexachloro-1,3-butadiene | U | | 0.314 | 2.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 2-Hexanone | U | | 1.51 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| n-Hexane | 1.91 | J J | 0.610 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| Iodomethane | U | | 0.754 | 20.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| Isopropylbenzene | U | | 0.252 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| p-Isopropyltoluene | U | | 0.276 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 2-Butanone (MEK) | U | | 2.56 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |

JC 10/17/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 2.14 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 4-Methyl-2-pentanone (MIBK) | U | | 1.65 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| Methyl tert-butyl ether | U | | 0.204 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Naphthalene | U | | 0.348 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| n-Propylbenzene | U | | 0.324 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Styrene | U | | 0.234 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1,1,2-Tetrachloroethane | U | | 0.240 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1,2,2-Tetrachloroethane | U | | 0.260 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.328 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Tetrachloroethene | U | | 0.398 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Toluene | 2.60 | | 0.824 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2,3-Trichlorobenzene | U | | 0.328 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2,4-Trichlorobenzene | U | | 0.710 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1,1-Trichloroethane | U | | 0.188 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,1,2-Trichloroethane | U | | 0.372 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Trichloroethene | U | | 0.306 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Trichlorofluoromethane | U | | 0.260 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2,3-Trichloropropane | U | | 0.494 | 5.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2,4-Trimethylbenzene | U | | 0.246 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,2,3-Trimethylbenzene | U | | 0.148 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| 1,3,5-Trimethylbenzene | U | | 0.248 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Vinyl acetate | U | | 1.29 | 10.0 | 2 | 09/27/2017 07:22 | WG1024893 |
| Vinyl chloride | U | | 0.236 | 1.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| Xylenes, Total | U | | 0.632 | 3.00 | 2 | 09/27/2017 07:22 | WG1024893 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/27/2017 07:22* | WG1024893 |
| *(S) Dibromofluoromethane* | *103* | | | *76.0-123* | | *09/27/2017 07:22* | WG1024893 |
| *(S) 4-Bromofluorobenzene* | *90.4* | | | *80.0-120* | | *09/27/2017 07:22* | WG1024893 |

**Sample Narrative:**

L938636-08 WG1024893: Lowest possible dilution due to sediment in sample vial.

JC 10/17/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.5 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 J3 | 5.53 | 27.6 | 500 | 10/01/2017 16:01 | WG1026247 |
| Acrylonitrile | U | | 0.989 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |
| Benzene | U | | 0.149 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Bromobenzene | U | | 0.157 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Bromodichloromethane | U | | 0.140 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Bromochloromethane | U | | 0.215 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| Bromoform | U | | 0.234 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Bromomethane | U | | 0.740 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| n-Butylbenzene | U | | 0.143 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| sec-Butylbenzene | U | | 0.111 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| tert-Butylbenzene | U | | 0.114 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Carbon disulfide | U | | 0.122 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Carbon tetrachloride | U | | 0.181 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Chlorobenzene | U | | 0.117 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Chlorodibromomethane | U | | 0.206 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Chloroethane | U | | 0.523 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| Chloroform | U | | 0.126 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| Chloromethane | U | | 0.208 | 1.38 | 500 | 10/01/2017 16:01 | WG1026247 |
| 2-Chlorotoluene | U | | 0.166 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 4-Chlorotoluene | U | | 0.133 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.580 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2-Dibromoethane | U | | 0.190 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Dibromomethane | U | | 0.211 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2-Dichlorobenzene | U | | 0.168 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,3-Dichlorobenzene | U | | 0.133 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,4-Dichlorobenzene | U | | 0.125 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Dichlorodifluoromethane | U | | 0.393 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1-Dichloroethane | U | | 0.110 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2-Dichloroethane | U | | 0.146 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1-Dichloroethene | U | | 0.168 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| cis-1,2-Dichloroethene | 1.41 | | 0.130 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| trans-1,2-Dichloroethene | U | | 0.146 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2-Dichloropropane | U | | 0.198 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1-Dichloropropene | U | | 0.175 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,3-Dichloropropane | U | | 0.115 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| cis-1,3-Dichloropropene | U | | 0.145 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| trans-1,3-Dichloropropene | U | | 0.148 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.430 | 1.38 | 500 | 10/01/2017 16:01 | WG1026247 |
| 2,2-Dichloropropane | U UJ | J0 | 0.155 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Di-isopropyl ether | U UJ | J0 | 0.137 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Ethylbenzene | U | | 0.164 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Hexachloro-1,3-butadiene | U | | 0.189 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 2-Hexanone | U | | 0.757 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |
| n-Hexane | U UJ | J0 | 0.160 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |
| Iodomethane | U | | 1.39 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |
| Isopropylbenzene | U | | 0.135 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| p-Isopropyltoluene | U | | 0.113 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 2-Butanone (MEK) | U | | 2.59 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |
| Methylene Chloride | U | | 0.553 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 1.04 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.117 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Naphthalene | U | | 0.553 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| n-Propylbenzene | U | | 0.114 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Styrene | U | | 0.129 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1,1,2-Tetrachloroethane | U | | 0.146 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1,2,2-Tetrachloroethane | U | | 0.201 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.201 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Tetrachloroethene | 14.5 | | 0.152 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Toluene | U | | 0.240 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2,3-Trichlorobenzene | U | | 0.169 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2,4-Trichlorobenzene | U | | 0.214 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1,1-Trichloroethane | U | | 0.158 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,1,2-Trichloroethane | U | | 0.152 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Trichloroethene | 0.865 | | 0.155 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Trichlorofluoromethane | U | | 0.211 | 2.76 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2,3-Trichloropropane | U | | 0.409 | 1.38 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2,4-Trimethylbenzene | U | | 0.117 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,2,3-Trimethylbenzene | U | | 0.159 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| 1,3,5-Trimethylbenzene | U | | 0.147 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Vinyl acetate | U | | 1.33 | 5.53 | 500 | 10/01/2017 16:01 | WG1026247 |
| Vinyl chloride | U | | 0.161 | 0.553 | 500 | 10/01/2017 16:01 | WG1026247 |
| Xylenes, Total | U | | 0.386 | 1.66 | 500 | 10/01/2017 16:01 | WG1026247 |
| *(S) Toluene-d8* | *109* | | | *80.0-120* | | *10/01/2017 16:01* | WG1026247 |
| *(S) Dibromofluoromethane* | *100* | | | *74.0-131* | | *10/01/2017 16:01* | WG1026247 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *10/01/2017 16:01* | WG1026247 |

**Sample Narrative:**

L938636-09 WG1026247: Target compound too high to run at a lower dilution.

JC 10/17/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.6 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0110 | 0.0552 | 1 | 09/24/2017 06:30 | WG1024032 |
| Acrylonitrile | U | | 0.00198 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Benzene | U | | 0.000298 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Bromobenzene | U | | 0.000313 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Bromodichloromethane | U | | 0.000280 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Bromochloromethane | U | | 0.000431 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| Bromoform | U | | 0.000468 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Bromomethane | U | | 0.00148 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| n-Butylbenzene | U | | 0.000285 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| sec-Butylbenzene | U | | 0.000222 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| tert-Butylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Carbon disulfide | 0.000317 J | J | 0.000244 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Carbon tetrachloride | U | | 0.000362 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Chlorobenzene | U | | 0.000234 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Chlorodibromomethane | U | | 0.000412 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Chloroethane | U | | 0.00104 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| Chloroform | U | | 0.000253 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| Chloromethane | U | | 0.000414 | 0.00276 | 1 | 09/24/2017 06:30 | WG1024032 |
| 2-Chlorotoluene | U | | 0.000332 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 4-Chlorotoluene | U | | 0.000265 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00116 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.000379 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Dibromomethane | U | | 0.000422 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.000337 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.000264 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.000249 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.000787 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.000220 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.000293 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1-Dichloroethene | U | | 0.000334 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| cis-1,2-Dichloroethene | 0.00582 | | 0.000259 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| trans-1,2-Dichloroethene | U | | 0.000291 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.000395 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.000350 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.000228 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.000289 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.000295 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U | | 0.000859 | 0.00276 | 1 | 09/24/2017 06:30 | WG1024032 |
| 2,2-Dichloropropane | U UJ | J0 | 0.000308 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Di-isopropyl ether | U | | 0.000274 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Ethylbenzene | U | | 0.000328 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.000378 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 2-Hexanone | U | | 0.00151 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |
| n-Hexane | U | | 0.000320 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Iodomethane | U | | 0.00279 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Isopropylbenzene | U | | 0.000268 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| p-Isopropyltoluene | U | | 0.000225 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 2-Butanone (MEK) | U | | 0.00517 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Methylene Chloride | U | | 0.00110 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00208 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |



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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000234 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Naphthalene | U | | 0.00110 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| n-Propylbenzene | U | | 0.000227 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Styrene | U | | 0.000258 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000291 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000403 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000403 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Tetrachloroethene | 0.0853 J | J0 | 0.000305 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Toluene | U | | 0.000479 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.000338 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.000428 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.000316 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.000306 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Trichloroethene | 0.00152 | | 0.000308 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Trichlorofluoromethane | U | | 0.000422 | 0.00552 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.000818 | 0.00276 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.000233 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.000317 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.000294 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Vinyl acetate | U | | 0.00264 | 0.0110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Vinyl chloride | 0.00153 | | 0.000321 | 0.00110 | 1 | 09/24/2017 06:30 | WG1024032 |
| Xylenes, Total | U | | 0.000770 | 0.00331 | 1 | 09/24/2017 06:30 | WG1024032 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/24/2017 06:30* | WG1024032 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/24/2017 06:30* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *113* | | | *64.0-132* | | *09/24/2017 06:30* | WG1024032 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 88.2 | | 1 | 09/26/2017 08:36 | WG1024280 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0113 | 0.0567 | 1 | 09/24/2017 06:50 | WG1024032 |
| Acrylonitrile | U | | 0.00203 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Benzene | U | | 0.000306 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Bromobenzene | U | | 0.000322 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Bromodichloromethane | U | | 0.000288 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Bromochloromethane | U | | 0.000442 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| Bromoform | U | | 0.000481 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Bromomethane | U | | 0.00152 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| n-Butylbenzene | U | | 0.000293 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| sec-Butylbenzene | U | | 0.000228 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| tert-Butylbenzene | U | | 0.000234 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Carbon disulfide | 0.000299 J | J | 0.000251 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Carbon tetrachloride | U | | 0.000372 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Chlorobenzene | U | | 0.000240 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Chlorodibromomethane | U | | 0.000423 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Chloroethane | U | | 0.00107 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| Chloroform | U | | 0.000260 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| Chloromethane | U | | 0.000425 | 0.00283 | 1 | 09/24/2017 06:50 | WG1024032 |
| 2-Chlorotoluene | U | | 0.000341 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 4-Chlorotoluene | U | | 0.000272 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00119 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.000389 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Dibromomethane | U | | 0.000433 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.000346 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.000271 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.000256 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.000808 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.000226 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.000300 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1-Dichloroethene | 0.0110 | | 0.000344 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| cis-1,2-Dichloroethene | U | | 0.000266 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| trans-1,2-Dichloroethene | 0.00481 | | 0.000299 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.000406 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.000359 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.000235 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.000297 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.000303 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U | | 0.000882 | 0.00283 | 1 | 09/24/2017 06:50 | WG1024032 |
| 2,2-Dichloropropane | U UJ | J0 | 0.000316 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Di-isopropyl ether | U | | 0.000281 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Ethylbenzene | U | | 0.000337 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.000388 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 2-Hexanone | U | | 0.00155 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |
| n-Hexane | U | | 0.000329 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Iodomethane | U | | 0.00287 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Isopropylbenzene | U | | 0.000276 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| p-Isopropyltoluene | U | | 0.000231 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 2-Butanone (MEK) | U | | 0.00531 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Methylene Chloride | U | | 0.00113 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00213 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000240 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Naphthalene | U | | 0.00113 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| n-Propylbenzene | U | | 0.000234 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Styrene | U | | 0.000265 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000299 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000414 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000414 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Tetrachloroethene | 1.01 | | 0.0156 | 0.0567 | 50 | 10/01/2017 18:25 | WG1024032 |
| Toluene | U | | 0.000492 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.000347 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.000440 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.000324 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.000314 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Trichloroethene | 0.815 | | 0.0159 | 0.0567 | 50 | 10/01/2017 18:25 | WG1024032 |
| Trichlorofluoromethane | U | | 0.000433 | 0.00567 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.000840 | 0.00283 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.000239 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.000325 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.000302 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Vinyl acetate | U | | 0.00271 | 0.0113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Vinyl chloride | 0.00907 | | 0.000330 | 0.00113 | 1 | 09/24/2017 06:50 | WG1024032 |
| Xylenes, Total | U | | 0.000791 | 0.00340 | 1 | 09/24/2017 06:50 | WG1024032 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/24/2017 06:50* | WG1024032 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *10/01/2017 18:25* | WG1024032 |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* | | *10/01/2017 18:25* | WG1024032 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/24/2017 06:50* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *10/01/2017 18:25* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/24/2017 06:50* | WG1024032 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.5 | | 1 | 09/26/2017 08:27 | WG1024282 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0116 | 0.0578 | 1 | 09/24/2017 07:09 | WG1024032 |
| Acrylonitrile | U | | 0.00207 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Benzene | U | | 0.000312 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Bromobenzene | U | | 0.000328 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Bromodichloromethane | U | | 0.000294 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Bromochloromethane | U | | 0.000451 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| Bromoform | U | | 0.000490 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Bromomethane | U | | 0.00155 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| n-Butylbenzene | U | | 0.000298 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| sec-Butylbenzene | U | | 0.000232 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| tert-Butylbenzene | U | | 0.000238 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Carbon disulfide | U | | 0.000255 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Carbon tetrachloride | U | | 0.000379 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Chlorobenzene | U | | 0.000245 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Chlorodibromomethane | U | | 0.000431 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Chloroethane | U | | 0.00109 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| Chloroform | U | | 0.000265 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| Chloromethane | U | | 0.000433 | 0.00289 | 1 | 09/24/2017 07:09 | WG1024032 |
| 2-Chlorotoluene | U | | 0.000348 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 4-Chlorotoluene | U | | 0.000277 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00121 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.000396 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Dibromomethane | U | | 0.000442 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.000353 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.000276 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.000261 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.000824 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.000230 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.000306 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1-Dichloroethene | 0.00119 | | 0.000350 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| cis-1,2-Dichloroethene | 0.109 | | 0.000272 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| trans-1,2-Dichloroethene | 0.00171 | | 0.000305 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.000414 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.000366 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.000239 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.000303 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.000309 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U | | 0.000899 | 0.00289 | 1 | 09/24/2017 07:09 | WG1024032 |
| 2,2-Dichloropropane | U UJ | J0 | 0.000322 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Di-isopropyl ether | U | | 0.000287 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Ethylbenzene | U | | 0.000343 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.000395 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 2-Hexanone | U | | 0.00158 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |
| n-Hexane | U | | 0.000335 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Iodomethane | U | | 0.00292 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Isopropylbenzene | U | | 0.000281 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| p-Isopropyltoluene | U | | 0.000236 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 2-Butanone (MEK) | U | | 0.00541 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Methylene Chloride | U | | 0.00116 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00217 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000245 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Naphthalene | U | | 0.00116 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| n-Propylbenzene | U | | 0.000238 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Styrene | U | | 0.000270 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000305 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000422 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000422 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Tetrachloroethene | 0.714 | | 0.00797 | 0.0289 | 25 | 10/01/2017 18:45 | WG1024032 |
| Toluene | U | | 0.000502 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.000448 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.000331 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.000320 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Trichloroethene | 0.130 | | 0.000322 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Trichlorofluoromethane | U | | 0.000442 | 0.00578 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.000856 | 0.00289 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.000244 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.000332 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.000307 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Vinyl acetate | U | | 0.00276 | 0.0116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Vinyl chloride | 0.0116 | | 0.000336 | 0.00116 | 1 | 09/24/2017 07:09 | WG1024032 |
| Xylenes, Total | U | | 0.000807 | 0.00347 | 1 | 09/24/2017 07:09 | WG1024032 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/24/2017 07:09* | WG1024032 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *10/01/2017 18:45* | WG1024032 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/24/2017 07:09* | WG1024032 |
| *(S) Dibromofluoromethane* | *96.6* | | | *74.0-131* | | *10/01/2017 18:45* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *109* | | | *64.0-132* | | *09/24/2017 07:09* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *64.0-132* | | *10/01/2017 18:45* | WG1024032 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.3 | | 1 | 09/26/2017 08:27 | WG1024282 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0112 | 0.0560 | 1 | 09/24/2017 07:29 | WG1024032 |
| Acrylonitrile | U | | 0.00201 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Benzene | U | | 0.000303 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Bromobenzene | U | | 0.000318 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Bromodichloromethane | U | | 0.000285 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Bromochloromethane | U | | 0.000437 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| Bromoform | U | | 0.000475 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Bromomethane | U | | 0.00150 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| n-Butylbenzene | U | | 0.000289 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| sec-Butylbenzene | U | | 0.000225 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| tert-Butylbenzene | U | | 0.000231 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Carbon disulfide | U | | 0.000248 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Carbon tetrachloride | U | | 0.000368 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Chlorobenzene | U | | 0.000238 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Chlorodibromomethane | U | | 0.000418 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Chloroethane | 0.00230 J | J | 0.00106 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| Chloroform | U | | 0.000257 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| Chloromethane | U | | 0.000420 | 0.00280 | 1 | 09/24/2017 07:29 | WG1024032 |
| 2-Chlorotoluene | U | | 0.000337 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 4-Chlorotoluene | U | | 0.000269 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00118 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.000384 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Dibromomethane | U | | 0.000428 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.000342 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.000268 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.000253 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.000799 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.000223 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.000297 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1-Dichloroethene | U | | 0.000339 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| cis-1,2-Dichloroethene | 0.0255 | | 0.000263 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| trans-1,2-Dichloroethene | 0.000980 J | J | 0.000296 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.000401 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.000355 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.000232 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.000294 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.000299 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U | | 0.000872 | 0.00280 | 1 | 09/24/2017 07:29 | WG1024032 |
| 2,2-Dichloropropane | U UJ | J0 | 0.000313 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Di-isopropyl ether | U | | 0.000278 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Ethylbenzene | U | | 0.000333 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.000383 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 2-Hexanone | U | | 0.00153 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |
| n-Hexane | U | | 0.000325 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Iodomethane | U | | 0.00283 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Isopropylbenzene | U | | 0.000272 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| p-Isopropyltoluene | U | | 0.000229 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 2-Butanone (MEK) | 0.00629 J | J | 0.00524 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Methylene Chloride | U | | 0.00112 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00211 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000238 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Naphthalene | U | | 0.00112 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| n-Propylbenzene | U | | 0.000231 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Styrene | U | | 0.000262 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000296 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000409 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000409 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Tetrachloroethene | 0.0190 UJ | J0 | 0.000309 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Toluene | U | | 0.000486 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.000343 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.000435 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.000320 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.000310 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Trichloroethene | 0.00506 | | 0.000313 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Trichlorofluoromethane | U | | 0.000428 | 0.00560 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.000830 | 0.00280 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.000236 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.000322 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.000298 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Vinyl acetate | U | | 0.00268 | 0.0112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Vinyl chloride | 0.0120 | | 0.000326 | 0.00112 | 1 | 09/24/2017 07:29 | WG1024032 |
| Xylenes, Total | U | | 0.000782 | 0.00336 | 1 | 09/24/2017 07:29 | WG1024032 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/24/2017 07:29* | WG1024032 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/24/2017 07:29* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *64.0-132* | | *09/24/2017 07:29* | WG1024032 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.6 | | 1 | 09/26/2017 08:27 | WG1024282 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0124 | 0.0620 | 1 | 09/24/2017 07:48 | WG1024032 |
| Acrylonitrile | U | | 0.00222 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Benzene | 0.000387 J | J | 0.000335 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Bromobenzene | U | | 0.000352 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Bromodichloromethane | U | | 0.000315 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Bromochloromethane | U | | 0.000484 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| Bromoform | U | | 0.000526 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Bromomethane | U | | 0.00166 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| n-Butylbenzene | U | | 0.000320 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| sec-Butylbenzene | U | | 0.000249 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| tert-Butylbenzene | U | | 0.000255 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Carbon disulfide | 0.00400 | | 0.000274 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Carbon tetrachloride | U | | 0.000407 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Chlorobenzene | U | | 0.000263 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Chlorodibromomethane | U | | 0.000463 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Chloroethane | U | | 0.00117 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| Chloroform | U | | 0.000284 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| Chloromethane | U | | 0.000465 | 0.00310 | 1 | 09/24/2017 07:48 | WG1024032 |
| 2-Chlorotoluene | U | | 0.000373 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 4-Chlorotoluene | U | | 0.000298 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00130 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.000425 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Dibromomethane | U | | 0.000474 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.000378 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.000296 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.000280 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.000884 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.000247 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.000329 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1-Dichloroethene | 0.00666 | | 0.000376 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| cis-1,2-Dichloroethene | 7.34 | | 0.0291 | 0.124 | 100 | 10/01/2017 19:04 | WG1024032 |
| trans-1,2-Dichloroethene | 0.0431 | | 0.000327 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.000444 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.000393 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.000257 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.000325 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.000331 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U | | 0.000965 | 0.00310 | 1 | 09/24/2017 07:48 | WG1024032 |
| 2,2-Dichloropropane | U UJ | J0 | 0.000346 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Di-isopropyl ether | U | | 0.000308 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Ethylbenzene | U | | 0.000368 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.000424 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 2-Hexanone | U | | 0.00170 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |
| n-Hexane | 0.00395 J | J | 0.000360 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Iodomethane | U | | 0.00314 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Isopropylbenzene | U | | 0.000301 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| p-Isopropyltoluene | U | | 0.000253 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 2-Butanone (MEK) | U | | 0.00580 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Methylene Chloride | U | | 0.00124 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00233 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000263 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Naphthalene | U | | 0.00124 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| n-Propylbenzene | U | | 0.000255 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Styrene | U | | 0.000290 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000327 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000453 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000453 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Tetrachloroethene | 0.0557 J | J0 | 0.000342 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Toluene | U | | 0.000538 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.000380 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.000481 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.000355 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.000344 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Trichloroethene | 0.00699 | | 0.000346 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Trichlorofluoromethane | U | | 0.000474 | 0.00620 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.000919 | 0.00310 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.000262 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.000356 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.000330 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Vinyl acetate | U | | 0.00296 | 0.0124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Vinyl chloride | 0.127 | | 0.000361 | 0.00124 | 1 | 09/24/2017 07:48 | WG1024032 |
| Xylenes, Total | U | | 0.000866 | 0.00372 | 1 | 09/24/2017 07:48 | WG1024032 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/24/2017 07:48* | WG1024032 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *10/01/2017 19:04* | WG1024032 |
| *(S) Dibromofluoromethane* | *102* | | | *74.0-131* | | *10/01/2017 19:04* | WG1024032 |
| *(S) Dibromofluoromethane* | *108* | | | *74.0-131* | | *09/24/2017 07:48* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *112* | | | *64.0-132* | | *09/24/2017 07:48* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *10/01/2017 19:04* | WG1024032 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.2 | | 1 | 09/26/2017 08:27 | WG1024282 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U UJ | J0 | 0.536 | 2.68 | 50 | 10/01/2017 19:25 | WG1024032 |
| Acrylonitrile | U | | 0.0960 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Benzene | U | | 0.0145 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Bromobenzene | U | | 0.0152 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Bromodichloromethane | U | | 0.0136 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Bromochloromethane | U | | 0.0209 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| Bromoform | U | | 0.0227 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Bromomethane | U | | 0.0719 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| n-Butylbenzene | U | | 0.0138 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| sec-Butylbenzene | U | | 0.0107 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| tert-Butylbenzene | U | | 0.0110 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Carbon disulfide | U | | 0.0118 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Carbon tetrachloride | U | | 0.0176 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Chlorobenzene | U | | 0.0114 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Chlorodibromomethane | U | | 0.0199 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Chloroethane | U | | 0.0507 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| Chloroform | U | | 0.0122 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| Chloromethane | U | | 0.0202 | 0.134 | 50 | 10/01/2017 19:25 | WG1024032 |
| 2-Chlorotoluene | U | | 0.0161 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 4-Chlorotoluene | U | | 0.0129 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.0563 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.0184 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Dibromomethane | U | | 0.0205 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.0163 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.0129 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.0121 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.0382 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.0107 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.0142 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1-Dichloroethene | U | | 0.0163 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| cis-1,2-Dichloroethene | 0.498 J | | 0.0127 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| trans-1,2-Dichloroethene | U | | 0.0142 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.0192 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.0169 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.0112 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.0140 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.0144 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.0417 | 0.134 | 50 | 10/01/2017 19:25 | WG1024032 |
| 2,2-Dichloropropane | U UJ | J0 | 0.0150 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Di-isopropyl ether | U UJ | J0 | 0.0133 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Ethylbenzene | U | | 0.0159 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.0183 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 2-Hexanone | U | | 0.0735 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |
| n-Hexane | U UJ | J0 | 0.0156 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Iodomethane | U | | 0.135 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Isopropylbenzene | U | | 0.0131 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| p-Isopropyltoluene | U | | 0.0109 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 2-Butanone (MEK) | U | | 0.251 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Methylene Chloride | U | | 0.0536 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.101 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0114 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Naphthalene | U | | 0.0536 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| n-Propylbenzene | U | | 0.0110 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Styrene | U | | 0.0125 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0142 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0195 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0195 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Tetrachloroethene | 4.09 | | 0.0148 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Toluene | U | | 0.0233 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.0164 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.0208 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.0153 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.0148 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Trichloroethene | 1.40 | J | 0.0150 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Trichlorofluoromethane | U | | 0.0205 | 0.268 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.0397 | 0.134 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.0114 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.0154 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.0143 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Vinyl acetate | U | | 0.129 | 0.536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Vinyl chloride | U | | 0.0157 | 0.0536 | 50 | 10/01/2017 19:25 | WG1024032 |
| Xylenes, Total | U | | 0.0374 | 0.161 | 50 | 10/01/2017 19:25 | WG1024032 |
| *(S) Toluene-d8* | *111* | | | *80.0-120* | | *10/01/2017 19:25* | WG1024032 |
| *(S) Dibromofluoromethane* | *96.9* | | | *74.0-131* | | *10/01/2017 19:25* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *10/01/2017 19:25* | WG1024032 |

**Sample Narrative:**

L938636-15 WG1024032: Target compound too high to run at a lower dilution.

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 94.3 | | 1 | 09/26/2017 08:27 | WG1024282 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0106 | 0.0530 | 1 | 09/24/2017 08:27 | WG1024032 |
| Acrylonitrile | U | | 0.00190 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Benzene | U | | 0.000286 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Bromobenzene | U | | 0.000301 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Bromodichloromethane | U | | 0.000269 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Bromochloromethane | U | | 0.000414 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| Bromoform | U | | 0.000450 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Bromomethane | U | | 0.00142 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| n-Butylbenzene | U | | 0.000274 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| sec-Butylbenzene | U | | 0.000213 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| tert-Butylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Carbon disulfide | 0.00171 | | 0.000234 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Carbon tetrachloride | U | | 0.000348 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Chlorobenzene | U | | 0.000225 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Chlorodibromomethane | U | | 0.000396 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Chloroethane | U | | 0.00100 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| Chloroform | U | | 0.000243 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| Chloromethane | U | | 0.000398 | 0.00265 | 1 | 09/24/2017 08:27 | WG1024032 |
| 2-Chlorotoluene | U | | 0.000319 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 4-Chlorotoluene | U | | 0.000255 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00111 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2-Dibromoethane | U | | 0.000364 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Dibromomethane | U | | 0.000405 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2-Dichlorobenzene | U | | 0.000323 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,3-Dichlorobenzene | U | | 0.000253 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,4-Dichlorobenzene | U | | 0.000240 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Dichlorodifluoromethane | U | | 0.000756 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1-Dichloroethane | U | | 0.000211 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2-Dichloroethane | U | | 0.000281 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1-Dichloroethene | 0.000787 J | J | 0.000321 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| cis-1,2-Dichloroethene | 0.160 J | | 0.000249 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| trans-1,2-Dichloroethene | 0.00183 | | 0.000280 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2-Dichloropropane | U | | 0.000380 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1-Dichloropropene | U | | 0.000336 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,3-Dichloropropane | U | | 0.000220 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| cis-1,3-Dichloropropene | U | J4 | 0.000278 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| trans-1,3-Dichloropropene | U | | 0.000283 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| trans-1,4-Dichloro-2-butene | U | | 0.000825 | 0.00265 | 1 | 09/24/2017 08:27 | WG1024032 |
| 2,2-Dichloropropane | U UJ | J0 | 0.000296 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Di-isopropyl ether | U | | 0.000263 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Ethylbenzene | U | | 0.000315 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Hexachloro-1,3-butadiene | U | | 0.000363 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 2-Hexanone | U | | 0.00145 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |
| n-Hexane | 0.000393 J | J | 0.000308 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Iodomethane | U | | 0.00268 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Isopropylbenzene | U | | 0.000258 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| p-Isopropyltoluene | U | | 0.000216 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 2-Butanone (MEK) | U | | 0.00496 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Methylene Chloride | U | | 0.00106 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00199 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000225 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Naphthalene | U | | 0.00106 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| n-Propylbenzene | U | | 0.000218 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Styrene | U | | 0.000248 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000280 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000387 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000387 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Tetrachloroethene | 4.34 | | 0.00732 | 0.0265 | 25 | 10/01/2017 19:44 | WG1024032 |
| Toluene | U | | 0.000460 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2,3-Trichlorobenzene | U | | 0.000325 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2,4-Trichlorobenzene | U | | 0.000411 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1,1-Trichloroethane | U | | 0.000303 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,1,2-Trichloroethane | U | | 0.000294 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Trichloroethene | 0.172 | J | 0.000296 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Trichlorofluoromethane | U | | 0.000405 | 0.00530 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2,3-Trichloropropane | U | | 0.000786 | 0.00265 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2,4-Trimethylbenzene | U | | 0.000224 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,2,3-Trimethylbenzene | U | | 0.000304 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| 1,3,5-Trimethylbenzene | U | | 0.000282 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Vinyl acetate | U | | 0.00253 | 0.0106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Vinyl chloride | U | | 0.000309 | 0.00106 | 1 | 09/24/2017 08:27 | WG1024032 |
| Xylenes, Total | U | | 0.000740 | 0.00318 | 1 | 09/24/2017 08:27 | WG1024032 |
| *(S) Toluene-d8* | *97.1* | | | *80.0-120* | | *10/01/2017 19:44* | WG1024032 |
| *(S) Toluene-d8* | *106* | | | *80.0-120* | | *09/24/2017 08:27* | WG1024032 |
| *(S) Dibromofluoromethane* | *94.2* | | | *74.0-131* | | *10/01/2017 19:44* | WG1024032 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *09/24/2017 08:27* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *112* | | | *64.0-132* | | *09/24/2017 08:27* | WG1024032 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *64.0-132* | | *10/01/2017 19:44* | WG1024032 |

JC 10/17/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | | 1.05 | 25.0 | 1 | 09/27/2017 01:35 | WG1024893 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/27/2017 01:35 | WG1024893 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 10/02/2017 20:51 | WG1024893 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/27/2017 01:35 | WG1024893 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |

JC 10/17/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/27/2017 01:35 | WG1024893 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/27/2017 01:35 | WG1024893 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/27/2017 01:35 | WG1024893 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *10/02/2017 20:51* | WG1024893 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/27/2017 01:35* | WG1024893 |
| *(S) Dibromofluoromethane* | *90.8* | | | *76.0-123* | | *10/02/2017 20:51* | WG1024893 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/27/2017 01:35* | WG1024893 |
| *(S) 4-Bromofluorobenzene* | *90.6* | | | *80.0-120* | | *09/27/2017 01:35* | WG1024893 |
| *(S) 4-Bromofluorobenzene* | *99.2* | | | *80.0-120* | | *10/02/2017 20:51* | WG1024893 |



JC 10/17/17

## Bill Haldeman

**From:** J Compeau <Informa_LLC@comcast.net>
**Sent:** Wednesday, October 18, 2017 8:26 AM
**To:** Bill Haldeman
**Subject:** FW: American Linen L938636

Communication record for your files.

Jessie Compeau

---

**From:** Brian Ford [mailto:BFord@esclabsciences.com]
**Sent:** Wednesday, October 18, 2017 7:48 AM
**To:** 'J Compeau'
**Subject:** RE: American Linen L938636

Jessie,

These samples had very large hits for PCE and daughter compounds which prevented analysis at a lower dilution. These samples were never analyzed from the low level vial or at a lower dilution. Let me know if you need any additional info.

Thanks,

Brian Ford
*Technical Service Representative*

**ESC Lab Sciences**-a subsidiary of Pace Analytical
12065 Lebanon Road | Mt. Juliet, TN 37122
615.773.9772 | Cell 931.510.2229
bford@esclabsciences.com | www.esclabsciences.com

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**From:** J Compeau [mailto:Informa_LLC@comcast.net]
**Sent:** Tuesday, October 17, 2017 5:31 PM
**To:** Brian Ford
**Subject:** American Linen L938636

Hi Brian,
Thanks for your last response. I am working on the final two SDGs and have a question on L938636 :

VOC results for soil samples B-221-37 (including field duplicate B-915-80), B-221-16, B-221-22, B-221-33, B-221-45, B-221-50, B-221-60, and B-222-50 are footnoted by ESC to indicate that target compound(s) are too high to run the sample at a lower dilution. No action is taken other than to note this.

- It appears that one sample, sample B-221-16 (L938636-02), does not appear to have elevated targets. Hard to say from this. Did matrix interference result in the dilution?

- For most if not all of the above mentioned samples did the laboratory run out of bisulfate preserved vials to analyze these at a LL?

Thanks

Jessie Compeau

Notice: This communication and any attached files may contain privileged or other confidential information. If you have received this in error, please contact the sender immediately via reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.

# ANALYTICAL REPORT

October 03, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L938873 |
| Samples Received: | 09/23/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | American Linen Project |

Report To: Bill Haldeman
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Entire Report Reviewed By:

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## B-223-16 L938873-01 Solid

Collected by: Shannon McKernan | Collected date/time: 09/21/17 15:45 | Received date/time: 09/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1025104 | 1 | 09/27/17 15:23 | 09/27/17 15:46 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024797 | 200 | 09/21/17 15:45 | 09/26/17 20:28 | DWR |

## B-223-22 L938873-02 Solid

Collected by: Shannon McKernan | Collected date/time: 09/21/17 16:00 | Received date/time: 09/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1025104 | 1 | 09/27/17 15:23 | 09/27/17 15:46 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024797 | 1000 | 09/21/17 16:00 | 10/02/17 19:03 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024797 | 200 | 09/21/17 16:00 | 09/26/17 20:54 | DWR |

## B-223-30 L938873-03 Solid

Collected by: Shannon McKernan | Collected date/time: 09/21/17 16:25 | Received date/time: 09/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1025104 | 1 | 09/27/17 15:23 | 09/27/17 15:46 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024797 | 100000 | 09/21/17 16:25 | 10/03/17 15:13 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024797 | 25000 | 09/21/17 16:25 | 10/02/17 19:29 | BMB |

## B-223-39 L938873-04 Solid

Collected by: Shannon McKernan | Collected date/time: 09/21/17 16:40 | Received date/time: 09/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1025104 | 1 | 09/27/17 15:23 | 09/27/17 15:46 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024909 | 1 | 09/21/17 16:40 | 09/27/17 01:27 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024909 | 100 | 09/21/17 16:40 | 09/28/17 20:38 | ACG |

## B-223-47 L938873-05 Solid

Collected by: Shannon McKernan | Collected date/time: 09/21/17 17:10 | Received date/time: 09/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1025104 | 1 | 09/27/17 15:23 | 09/27/17 15:46 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024909 | 1 | 09/21/17 17:10 | 09/27/17 01:47 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024909 | 25 | 09/21/17 17:10 | 09/28/17 20:58 | ACG |

## B-917-57 L938873-06 Solid

Collected by: Shannon McKernan | Collected date/time: 09/21/17 17:30 | Received date/time: 09/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1025104 | 1 | 09/27/17 15:23 | 09/27/17 15:46 | KDW |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024909 | 1 | 09/21/17 17:30 | 09/27/17 02:06 | ACG |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1024909 | 25 | 09/21/17 17:30 | 09/28/17 21:18 | ACG |

## MW-140-092217 L938873-07 GW

Collected by: Shannon McKernan | Collected date/time: 09/22/17 10:50 | Received date/time: 09/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1025164 | 1 | 09/27/17 19:51 | 09/27/17 19:51 | BMB |

## MW-134-092217 L938873-08 GW

Collected by: Shannon McKernan | Collected date/time: 09/22/17 08:50 | Received date/time: 09/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1025164 | 5 | 09/27/17 20:13 | 09/27/17 20:13 | BMB |

## MW-141-092217 L938873-09 GW

Collected by: Shannon McKernan | Collected date/time: 09/22/17 12:30 | Received date/time: 09/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1025164 | 1 | 09/27/17 20:35 | 09/27/17 20:35 | BMB |

## B-917-100-W L938873-10 GW

Collected by: Shannon McKernan | Collected date/time: 09/22/17 09:00 | Received date/time: 09/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1025164 | 1 | 09/27/17 20:57 | 09/27/17 20:57 | BMB |

## TRIP BLANK-092217 L938873-11 GW

Collected by: Shannon McKernan | Collected date/time: 09/21/17 00:00 | Received date/time: 09/23/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1025164 | 1 | 09/27/17 12:53 | 09/27/17 12:53 | ACG |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.6 | | 1 | 09/27/2017 15:46 | WG1025104 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 2.36 | 11.8 | 200 | 09/26/2017 20:28 | WG1024797 |
| Acrylonitrile | U | | 0.423 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |
| Benzene | U | | 0.0638 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Bromobenzene | U | | 0.0671 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Bromodichloromethane | U | | 0.0600 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Bromochloromethane | U | | 0.0922 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| Bromoform | U | | 0.100 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Bromomethane | U | J0 | 0.317 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| n-Butylbenzene | U | | 0.0610 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| sec-Butylbenzene | U | | 0.0475 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| tert-Butylbenzene | U | | 0.0487 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Carbon disulfide | U | | 0.0522 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Carbon tetrachloride | U | | 0.0775 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Chlorobenzene | U | | 0.0501 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Chlorodibromomethane | U | | 0.0881 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Chloroethane | U | | 0.223 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| Chloroform | U | | 0.0541 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| Chloromethane | U | | 0.0886 | 0.591 | 200 | 09/26/2017 20:28 | WG1024797 |
| 2-Chlorotoluene | U | | 0.0711 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 4-Chlorotoluene | U | | 0.0567 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.248 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2-Dibromoethane | U | | 0.0811 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Dibromomethane | U | | 0.0903 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2-Dichlorobenzene | U | | 0.0721 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,3-Dichlorobenzene | U | | 0.0565 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,4-Dichlorobenzene | U | | 0.0534 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Dichlorodifluoromethane | U | | 0.169 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1-Dichloroethane | U | | 0.0470 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2-Dichloroethane | U | | 0.0626 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1-Dichloroethene | U | | 0.0716 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| cis-1,2-Dichloroethene | 1.71 | | 0.0555 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| trans-1,2-Dichloroethene | U | | 0.0624 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2-Dichloropropane | 0.203 | J | 0.0846 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1-Dichloropropene | U | | 0.0749 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,3-Dichloropropane | U | | 0.0489 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| cis-1,3-Dichloropropene | U | | 0.0619 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| trans-1,3-Dichloropropene | U | | 0.0631 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| trans-1,4-Dichloro-2-butene | U | | 0.184 | 0.591 | 200 | 09/26/2017 20:28 | WG1024797 |
| 2,2-Dichloropropane | U | | 0.0659 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Di-isopropyl ether | U | | 0.0586 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Ethylbenzene | U | | 0.0702 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Hexachloro-1,3-butadiene | U | | 0.0808 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 2-Hexanone | U | | 0.324 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |
| n-Hexane | U | | 0.0685 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |
| Iodomethane | U | | 0.598 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |
| Isopropylbenzene | U | | 0.0574 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| p-Isopropyltoluene | U | | 0.0482 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 2-Butanone (MEK) | U | | 1.11 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |
| Methylene Chloride | U | | 0.236 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.444 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0501 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Naphthalene | U | | 0.236 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| n-Propylbenzene | U | | 0.0487 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Styrene | U | | 0.0553 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0624 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0863 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0863 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Tetrachloroethene | 27.0 | | 0.0652 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Toluene | U | | 0.103 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2,3-Trichlorobenzene | U | | 0.0723 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2,4-Trichlorobenzene | U | | 0.0917 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1,1-Trichloroethane | U | | 0.0676 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1,2-Trichloroethane | U | | 0.0655 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Trichloroethene | 1.08 | | 0.0659 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Trichlorofluoromethane | U | | 0.0903 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2,3-Trichloropropane | U | | 0.175 | 0.591 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2,4-Trimethylbenzene | U | | 0.0499 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2,3-Trimethylbenzene | U | | 0.0678 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,3,5-Trimethylbenzene | U | | 0.0629 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Vinyl acetate | U | | 0.565 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |
| Vinyl chloride | U | | 0.0688 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Xylenes, Total | U | | 0.165 | 0.709 | 200 | 09/26/2017 20:28 | WG1024797 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/26/2017 20:28* | WG1024797 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/26/2017 20:28* | WG1024797 |
| *(S) 4-Bromofluorobenzene* | *99.5* | | | *64.0-132* | | *09/26/2017 20:28* | WG1024797 |

**Sample Narrative:**

L938873-01 WG1024797: Target compounds too high to re-analyze at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.6 | | 1 | 09/27/2017 15:46 | WG1025104 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 2.28 | 11.4 | 200 | 09/26/2017 20:54 | WG1024797 |
| Acrylonitrile | U | | 0.409 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |
| Benzene | U | | 0.0617 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Bromobenzene | U | | 0.0649 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Bromodichloromethane | U | | 0.0580 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Bromochloromethane | U | | 0.0891 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| Bromoform | U | | 0.0968 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Bromomethane | U | J0 | 0.306 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| n-Butylbenzene | U | | 0.0589 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| sec-Butylbenzene | U | | 0.0459 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| tert-Butylbenzene | U | | 0.0470 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Carbon disulfide | U | | 0.0505 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Carbon tetrachloride | U | | 0.0749 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Chlorobenzene | U | | 0.0484 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Chlorodibromomethane | U | | 0.0852 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Chloroethane | U | | 0.216 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| Chloroform | U | | 0.0523 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| Chloromethane | U | | 0.0856 | 0.571 | 200 | 09/26/2017 20:54 | WG1024797 |
| 2-Chlorotoluene | U | | 0.0687 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 4-Chlorotoluene | U | | 0.0548 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.240 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2-Dibromoethane | U | | 0.0783 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Dibromomethane | U | | 0.0872 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2-Dichlorobenzene | U | | 0.0697 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,3-Dichlorobenzene | U | | 0.0546 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,4-Dichlorobenzene | U | | 0.0516 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Dichlorodifluoromethane | U | | 0.163 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1-Dichloroethane | U | | 0.0455 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2-Dichloroethane | U | | 0.0605 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1-Dichloroethene | U | | 0.0692 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| cis-1,2-Dichloroethene | 0.713 | | 0.0537 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| trans-1,2-Dichloroethene | U | | 0.0603 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2-Dichloropropane | U | | 0.0818 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1-Dichloropropene | U | | 0.0724 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,3-Dichloropropane | U | | 0.0473 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| cis-1,3-Dichloropropene | U | | 0.0598 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| trans-1,3-Dichloropropene | U | | 0.0610 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| trans-1,4-Dichloro-2-butene | U | | 0.178 | 0.571 | 200 | 09/26/2017 20:54 | WG1024797 |
| 2,2-Dichloropropane | U | | 0.0637 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Di-isopropyl ether | U | | 0.0566 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Ethylbenzene | U | | 0.0678 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Hexachloro-1,3-butadiene | U | | 0.0781 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 2-Hexanone | U | | 0.313 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |
| n-Hexane | U | | 0.0662 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |
| Iodomethane | U | | 0.578 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |
| Isopropylbenzene | U | | 0.0555 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| p-Isopropyltoluene | U | | 0.0466 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 2-Butanone (MEK) | U | | 1.07 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |
| Methylene Chloride | U | | 0.228 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 0.429 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0484 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Naphthalene | U | | 0.228 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| n-Propylbenzene | U | | 0.0470 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Styrene | U | | 0.0534 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0603 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0834 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0834 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Tetrachloroethene | 38.0 | | 0.315 | 1.14 | 1000 | 10/02/2017 19:03 | WG1024797 |
| Toluene | U | | 0.0991 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2,3-Trichlorobenzene | U | | 0.0699 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2,4-Trichlorobenzene | U | | 0.0886 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1,1-Trichloroethane | U | | 0.0653 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1,2-Trichloroethane | U | | 0.0633 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Trichloroethene | 0.453 | | 0.0637 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Trichlorofluoromethane | U | | 0.0872 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2,3-Trichloropropane | U | | 0.169 | 0.571 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2,4-Trimethylbenzene | U | | 0.0482 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2,3-Trimethylbenzene | U | | 0.0655 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,3,5-Trimethylbenzene | U | | 0.0608 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Vinyl acetate | U | | 0.546 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |
| Vinyl chloride | U | | 0.0665 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Xylenes, Total | U | | 0.160 | 0.685 | 200 | 09/26/2017 20:54 | WG1024797 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *10/02/2017 19:03* | WG1024797 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/26/2017 20:54* | WG1024797 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *10/02/2017 19:03* | WG1024797 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *09/26/2017 20:54* | WG1024797 |
| *(S) 4-Bromofluorobenzene* | *98.9* | | | *64.0-132* | | *09/26/2017 20:54* | WG1024797 |
| *(S) 4-Bromofluorobenzene* | *98.6* | | | *64.0-132* | | *10/02/2017 19:03* | WG1024797 |

**Sample Narrative:**

L938873-02 WG1024797: Target compounds too high to re-analyze at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.8 | | 1 | 09/27/2017 15:46 | WG1025104 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 275 | 1380 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Acrylonitrile | U | J0 | 49.3 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Benzene | U | | 7.43 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Bromobenzene | U | | 7.82 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Bromodichloromethane | U | | 6.99 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Bromochloromethane | U | | 10.7 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Bromoform | U | | 11.7 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Bromomethane | U | | 36.9 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| n-Butylbenzene | U | | 7.10 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| sec-Butylbenzene | U | | 5.53 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| tert-Butylbenzene | U | | 5.67 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Carbon disulfide | U | | 6.08 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Carbon tetrachloride | U | | 9.03 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Chlorobenzene | U | | 5.84 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Chlorodibromomethane | U | | 10.3 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Chloroethane | U | | 26.0 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Chloroform | U | | 6.30 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Chloromethane | U | | 10.3 | 68.8 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 2-Chlorotoluene | U | | 8.28 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 4-Chlorotoluene | U | | 6.61 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2-Dibromo-3-Chloropropane | U | J0 | 28.8 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2-Dibromoethane | U | | 9.45 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Dibromomethane | U | | 10.5 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2-Dichlorobenzene | U | | 8.39 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,3-Dichlorobenzene | U | | 6.58 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,4-Dichlorobenzene | U | | 6.22 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Dichlorodifluoromethane | U | | 19.6 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1-Dichloroethane | U | | 5.48 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2-Dichloroethane | U | | 7.29 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1-Dichloroethene | U | | 8.35 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| cis-1,2-Dichloroethene | U | | 6.47 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| trans-1,2-Dichloroethene | U | | 7.27 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2-Dichloropropane | U | | 9.85 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1-Dichloropropene | U | | 8.72 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,3-Dichloropropane | U | | 5.70 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| cis-1,3-Dichloropropene | U | | 7.21 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| trans-1,3-Dichloropropene | U | | 7.35 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| trans-1,4-Dichloro-2-butene | U | | 21.4 | 68.8 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 2,2-Dichloropropane | U | | 7.68 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Di-isopropyl ether | U | | 6.83 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Ethylbenzene | U | | 8.17 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Hexachloro-1,3-butadiene | U | | 9.41 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 2-Hexanone | U | | 37.7 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |
| n-Hexane | U | | 7.98 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Iodomethane | U | | 69.6 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Isopropylbenzene | U | | 6.69 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| p-Isopropyltoluene | U | | 5.61 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 2-Butanone (MEK) | U | | 129 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Methylene Chloride | U | | 27.5 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 4-Methyl-2-pentanone (MIBK) | U | J0 | 51.7 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 5.84 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Naphthalene | U | | 27.5 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| n-Propylbenzene | U | | 5.67 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Styrene | U | | 6.44 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1,1,2-Tetrachloroethane | U | | 7.27 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1,2,2-Tetrachloroethane | U | | 10.0 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1,2-Trichlorotrifluoroethane | U | | 10.0 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Tetrachloroethene | 5560 | | 30.4 | 110 | 100000 | 10/03/2017 15:13 | WG1024797 |
| Toluene | U | | 11.9 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2,3-Trichlorobenzene | U | | 8.42 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2,4-Trichlorobenzene | U | | 10.7 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1,1-Trichloroethane | U | | 7.87 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1,2-Trichloroethane | U | | 7.62 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Trichloroethene | U | | 7.68 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Trichlorofluoromethane | U | | 10.5 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2,3-Trichloropropane | U | | 20.4 | 68.8 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2,4-Trimethylbenzene | U | | 5.81 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2,3-Trimethylbenzene | U | | 7.90 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,3,5-Trimethylbenzene | U | | 7.32 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Vinyl acetate | U | | 65.8 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Vinyl chloride | U | | 8.01 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Xylenes, Total | U | | 19.2 | 82.6 | 25000 | 10/02/2017 19:29 | WG1024797 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *10/03/2017 15:13* | WG1024797 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *10/02/2017 19:29* | WG1024797 |
| *(S) Dibromofluoromethane* | *91.8* | | | *74.0-131* | | *10/03/2017 15:13* | WG1024797 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *10/02/2017 19:29* | WG1024797 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *10/02/2017 19:29* | WG1024797 |
| *(S) 4-Bromofluorobenzene* | *98.2* | | | *64.0-132* | | *10/03/2017 15:13* | WG1024797 |

**Sample Narrative:**

L938873-03 WG1024797: Target compounds too high to re-analyze at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.8 | | 1 | 09/27/2017 15:46 | WG1025104 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0569 | 1 | 09/27/2017 01:27 | WG1024909 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Bromobenzene | U | | 0.000323 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Bromodichloromethane | U | | 0.000289 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Bromochloromethane | U | | 0.000444 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| Bromoform | U | | 0.000483 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Bromomethane | U | | 0.00153 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Carbon disulfide | U | | 0.000252 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Carbon tetrachloride | U | | 0.000374 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Chlorobenzene | U | | 0.000241 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Chlorodibromomethane | U | | 0.000425 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Chloroethane | 0.00151 | J | 0.00108 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| Chloroform | U | | 0.000261 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| Chloromethane | U | | 0.000427 | 0.00285 | 1 | 09/27/2017 01:27 | WG1024909 |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 4-Chlorotoluene | U | | 0.000273 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Dibromomethane | U | | 0.000435 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2-Dichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,3-Dichlorobenzene | U | | 0.000272 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Dichlorodifluoromethane | U | | 0.000812 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1-Dichloroethene | U | | 0.000345 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| cis-1,2-Dichloroethene | 0.0914 | | 0.000268 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| trans-1,2-Dichloroethene | 0.000883 | J | 0.000301 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2-Dichloropropane | U | | 0.000408 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1-Dichloropropene | U | | 0.000361 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| cis-1,3-Dichloropropene | U | | 0.000298 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| trans-1,3-Dichloropropene | U | | 0.000304 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| trans-1,4-Dichloro-2-butene | U | | 0.000886 | 0.00285 | 1 | 09/27/2017 01:27 | WG1024909 |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Di-isopropyl ether | U | | 0.000282 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Ethylbenzene | U | | 0.000338 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Hexachloro-1,3-butadiene | U | | 0.000390 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |
| n-Hexane | U | | 0.000330 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Iodomethane | U | | 0.00288 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 2-Butanone (MEK) | U | | 0.00533 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Methylene Chloride | U | | 0.00114 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000241 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Naphthalene | U | | 0.00114 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000416 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000416 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Tetrachloroethene | 4.68 | | 0.0314 | 0.114 | 100 | 09/28/2017 20:38 | WG1024909 |
| Toluene | U | | 0.000494 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2,3-Trichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2,4-Trichlorobenzene | U | | 0.000442 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1,2-Trichloroethane | U | | 0.000315 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Trichloroethene | 0.0228 | | 0.000318 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Trichlorofluoromethane | U | | 0.000435 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2,3-Trichloropropane | U | | 0.000844 | 0.00285 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2,4-Trimethylbenzene | U | | 0.0240 | 0.114 | 100 | 09/28/2017 20:38 | WG1024909 |
| 1,2,3-Trimethylbenzene | U | | 0.000327 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,3,5-Trimethylbenzene | U | | 0.000303 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Vinyl acetate | U | | 0.00272 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Vinyl chloride | 0.00775 | | 0.000331 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Xylenes, Total | U | | 0.000795 | 0.00342 | 1 | 09/27/2017 01:27 | WG1024909 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/28/2017 20:38* | WG1024909 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/27/2017 01:27* | WG1024909 |
| *(S) Dibromofluoromethane* | *96.5* | | | *74.0-131* | | *09/28/2017 20:38* | WG1024909 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/27/2017 01:27* | WG1024909 |
| *(S) 4-Bromofluorobenzene* | *113* | | | *64.0-132* | | *09/27/2017 01:27* | WG1024909 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/28/2017 20:38* | WG1024909 |

**Sample Narrative:**

L938873-04 WG1024909: Target compounds too high to re-analyze at a lower dilution.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.1 | | 1 | 09/27/2017 15:46 | WG1025104 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0138 | J | 0.0116 | 0.0581 | 1 | 09/27/2017 01:47 | WG1024909 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Benzene | U | | 0.000314 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Bromochloromethane | U | | 0.000453 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| Bromoform | U | | 0.000492 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Bromomethane | U | | 0.00156 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| n-Butylbenzene | U | | 0.000300 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Carbon disulfide | 0.00113 | J | 0.000257 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Chloroethane | U | | 0.00110 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| Chloroform | U | | 0.000266 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| Chloromethane | U | | 0.000435 | 0.00290 | 1 | 09/27/2017 01:47 | WG1024909 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2-Dibromoethane | U | | 0.000398 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Dibromomethane | U | | 0.000444 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,3-Dichlorobenzene | U | | 0.000278 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Dichlorodifluoromethane | U | | 0.000828 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2-Dichloroethane | U | | 0.000308 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1-Dichloroethene | U | | 0.000352 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| cis-1,2-Dichloroethene | 0.00208 | | 0.000273 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| trans-1,2-Dichloroethene | U | | 0.000307 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| trans-1,4-Dichloro-2-butene | U | | 0.000903 | 0.00290 | 1 | 09/27/2017 01:47 | WG1024909 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |
| n-Hexane | U | | 0.000337 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 2-Butanone (MEK) | U | | 0.00543 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Methylene Chloride | U | | 0.00116 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Naphthalene | U | | 0.00116 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000307 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Tetrachloroethene | 2.17 | | 0.00801 | 0.0290 | 25 | 09/28/2017 20:58 | WG1024909 |
| Toluene | U | | 0.000504 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2,4-Trichlorobenzene | U | | 0.000451 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Trichloroethene | 0.00106 | J | 0.000324 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Trichlorofluoromethane | U | | 0.000444 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2,3-Trichloropropane | U | | 0.000860 | 0.00290 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Vinyl acetate | U | | 0.00278 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Vinyl chloride | U | | 0.000338 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Xylenes, Total | U | | 0.000810 | 0.00348 | 1 | 09/27/2017 01:47 | WG1024909 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/27/2017 01:47* | WG1024909 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/28/2017 20:58* | WG1024909 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/27/2017 01:47* | WG1024909 |
| *(S) Dibromofluoromethane* | *94.2* | | | *74.0-131* | | *09/28/2017 20:58* | WG1024909 |
| *(S) 4-Bromofluorobenzene* | *114* | | | *64.0-132* | | *09/27/2017 01:47* | WG1024909 |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *64.0-132* | | *09/28/2017 20:58* | WG1024909 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.0 | | 1 | 09/27/2017 15:46 | WG1025104 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0107 | 0.0537 | 1 | 09/27/2017 02:06 | WG1024909 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Benzene | U | | 0.000290 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Bromobenzene | U | | 0.000305 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Bromodichloromethane | U | | 0.000273 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Bromochloromethane | U | | 0.000419 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| Bromoform | U | | 0.000456 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Bromomethane | U | | 0.00144 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| n-Butylbenzene | U | | 0.000277 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| sec-Butylbenzene | U | | 0.000216 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Carbon disulfide | 0.00100 | J | 0.000238 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Carbon tetrachloride | U | | 0.000353 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Chlorobenzene | U | | 0.000228 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Chlorodibromomethane | U | | 0.000401 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Chloroethane | U | | 0.00102 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| Chloroform | U | | 0.000246 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| Chloromethane | U | | 0.000403 | 0.00269 | 1 | 09/27/2017 02:06 | WG1024909 |
| 2-Chlorotoluene | U | | 0.000323 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 4-Chlorotoluene | U | | 0.000258 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2-Dibromoethane | U | | 0.000369 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Dibromomethane | U | | 0.000411 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Dichlorodifluoromethane | U | | 0.000766 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1-Dichloroethene | U | | 0.000326 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| cis-1,2-Dichloroethene | 0.000728 | J | 0.000253 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| trans-1,2-Dichloroethene | U | | 0.000284 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2-Dichloropropane | U | | 0.000385 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1-Dichloropropene | U | | 0.000341 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| cis-1,3-Dichloropropene | U | | 0.000282 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| trans-1,3-Dichloropropene | U | | 0.000287 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| trans-1,4-Dichloro-2-butene | U | | 0.000836 | 0.00269 | 1 | 09/27/2017 02:06 | WG1024909 |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Di-isopropyl ether | U | | 0.000267 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Ethylbenzene | U | | 0.000319 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Hexachloro-1,3-butadiene | U | | 0.000368 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |
| n-Hexane | U | | 0.000312 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Iodomethane | U | | 0.00272 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Isopropylbenzene | U | | 0.000261 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| p-Isopropyltoluene | U | | 0.000219 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 2-Butanone (MEK) | U | | 0.00503 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Methylene Chloride | U | | 0.00107 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Naphthalene | U | | 0.00107 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000392 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000392 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Tetrachloroethene | 1.13 | | 0.00742 | 0.0269 | 25 | 09/28/2017 21:18 | WG1024909 |
| Toluene | U | | 0.000466 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2,3-Trichlorobenzene | U | | 0.000329 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2,4-Trichlorobenzene | U | | 0.000417 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1,1-Trichloroethane | U | | 0.000307 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Trichloroethene | 0.000520 | J | 0.000300 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Trichlorofluoromethane | U | | 0.000411 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2,3-Trichloropropane | U | | 0.000796 | 0.00269 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2,3-Trimethylbenzene | U | | 0.000308 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Vinyl acetate | U | | 0.00257 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Vinyl chloride | U | | 0.000313 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Xylenes, Total | U | | 0.000750 | 0.00322 | 1 | 09/27/2017 02:06 | WG1024909 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/27/2017 02:06* | WG1024909 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/28/2017 21:18* | WG1024909 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *09/27/2017 02:06* | WG1024909 |
| *(S) Dibromofluoromethane* | *93.5* | | | *74.0-131* | | *09/28/2017 21:18* | WG1024909 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/28/2017 21:18* | WG1024909 |
| *(S) 4-Bromofluorobenzene* | *113* | | | *64.0-132* | | *09/27/2017 02:06* | WG1024909 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 2.11 | B J J4 | 1.05 | 25.0 | 1 | 09/27/2017 19:51 | WG1025164 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Chloromethane | 0.754 | J | 0.153 | 1.25 | 1 | 09/27/2017 19:51 | WG1025164 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1-Dichloroethene | 0.226 | J | 0.188 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| cis-1,2-Dichloroethene | 0.477 | J | 0.0933 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.257 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/27/2017 19:51 | WG1025164 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Trichloroethene | 0.450 | J | 0.153 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/27/2017 19:51* | WG1025164 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *09/27/2017 19:51* | WG1025164 |
| *(S) 4-Bromofluorobenzene* | *89.4* | | | *80.0-120* | | *09/27/2017 19:51* | WG1025164 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 5.64 | B J J4 | 5.25 | 125 | 5 | 09/27/2017 20:13 | WG1025164 |
| Acrylonitrile | U | | 4.36 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| Benzene | U | | 0.448 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Bromobenzene | U | | 0.665 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Bromodichloromethane | U | | 0.400 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Bromochloromethane | U | | 0.725 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Bromoform | U | | 0.930 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Bromomethane | U | | 0.785 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| n-Butylbenzene | U | | 0.715 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| sec-Butylbenzene | U | | 0.670 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| tert-Butylbenzene | U | | 0.915 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Carbon disulfide | U | | 0.505 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Carbon tetrachloride | U | | 0.795 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Chlorobenzene | U | | 0.700 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Chlorodibromomethane | U | | 0.640 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Chloroethane | U | | 0.705 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| Chloroform | U | | 0.430 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Chloromethane | U | | 0.765 | 6.25 | 5 | 09/27/2017 20:13 | WG1025164 |
| 2-Chlorotoluene | U | | 0.555 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 4-Chlorotoluene | U | | 0.486 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.62 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2-Dibromoethane | U | | 0.965 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Dibromomethane | U | | 0.585 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2-Dichlorobenzene | U | | 0.505 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,3-Dichlorobenzene | U | | 0.650 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,4-Dichlorobenzene | U | | 0.605 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Dichlorodifluoromethane | U | | 0.635 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1-Dichloroethane | U | | 0.570 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2-Dichloroethane | U | | 0.540 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1-Dichloroethene | U | | 0.940 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| cis-1,2-Dichloroethene | 86.2 | | 0.466 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| trans-1,2-Dichloroethene | U | | 0.760 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2-Dichloropropane | U | | 0.950 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1-Dichloropropene | U | | 0.640 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,3-Dichloropropane | U | | 0.735 | 5.00 | 5 | 09/27/2017 20:13 | WG1025164 |
| cis-1,3-Dichloropropene | U | | 0.488 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| trans-1,3-Dichloropropene | U | | 1.11 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| trans-1,4-Dichloro-2-butene | U | J0 | 1.28 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| 2,2-Dichloropropane | U | | 0.464 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Di-isopropyl ether | U | | 0.462 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Ethylbenzene | U | | 0.790 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Hexachloro-1,3-butadiene | U | | 0.785 | 5.00 | 5 | 09/27/2017 20:13 | WG1025164 |
| 2-Hexanone | U | | 3.78 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| n-Hexane | U | | 1.52 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| Iodomethane | U | | 1.88 | 50.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| Isopropylbenzene | U | | 0.630 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| p-Isopropyltoluene | U | | 0.690 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 2-Butanone (MEK) | U | | 6.40 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| Methylene Chloride | U | | 5.35 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| 4-Methyl-2-pentanone (MIBK) | U | | 4.12 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| Methyl tert-butyl ether | U | | 0.510 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Naphthalene | U | | 0.870 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| n-Propylbenzene | U | | 0.810 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Styrene | U | | 0.585 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1,1,2-Tetrachloroethane | U | | 0.600 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1,2,2-Tetrachloroethane | U | | 0.650 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.820 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Tetrachloroethene | U | | 0.995 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Toluene | U | | 2.06 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2,3-Trichlorobenzene | U | | 0.820 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2,4-Trichlorobenzene | U | | 1.78 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1,1-Trichloroethane | U | | 0.470 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1,2-Trichloroethane | U | | 0.930 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Trichloroethene | U | | 0.765 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Trichlorofluoromethane | U | | 0.650 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2,3-Trichloropropane | U | | 1.24 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2,4-Trimethylbenzene | U | | 0.615 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2,3-Trimethylbenzene | U | | 0.370 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,3,5-Trimethylbenzene | U | | 0.620 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Vinyl acetate | U | | 3.22 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| Vinyl chloride | 229 | | 0.590 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Xylenes, Total | U | | 1.58 | 7.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/27/2017 20:13* | WG1025164 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/27/2017 20:13* | WG1025164 |
| *(S) 4-Bromofluorobenzene* | *90.5* | | | *80.0-120* | | *09/27/2017 20:13* | WG1025164 |

Sample Narrative:

L938873-08 WG1025164: Target compounds too high to re-analyze at a lower dilution.

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 4.56 | B J J4 | 1.05 | 25.0 | 1 | 09/27/2017 20:35 | WG1025164 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Chloromethane | 2.07 | | 0.153 | 1.25 | 1 | 09/27/2017 20:35 | WG1025164 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| cis-1,2-Dichloroethene | 0.345 | J | 0.0933 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.257 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/27/2017 20:35 | WG1025164 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Toluene | 0.941 | | 0.412 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| Vinyl chloride | 0.457 | J | 0.118 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/27/2017 20:35* | WG1025164 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/27/2017 20:35* | WG1025164 |
| *(S) 4-Bromofluorobenzene* | *88.9* | | | *80.0-120* | | *09/27/2017 20:35* | WG1025164 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 3.74 | B J J4 | 1.05 | 25.0 | 1 | 09/27/2017 20:57 | WG1025164 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Chloromethane | 2.13 | | 0.153 | 1.25 | 1 | 09/27/2017 20:57 | WG1025164 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1-Dichloroethene | 0.211 | J | 0.188 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| cis-1,2-Dichloroethene | 0.523 | | 0.0933 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.257 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/27/2017 20:57 | WG1025164 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Trichloroethene | 0.456 | J | 0.153 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/27/2017 20:57* | WG1025164 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/27/2017 20:57* | WG1025164 |
| *(S) 4-Bromofluorobenzene* | *89.3* | | | *80.0-120* | | *09/27/2017 20:57* | WG1025164 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | U | J4 | 1.05 | 25.0 | 1 | 09/27/2017 12:53 | WG1025164 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/27/2017 12:53 | WG1025164 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/27/2017 12:53 | WG1025164 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| trans-1,4-Dichloro-2-butene | U | J0 | 0.257 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/27/2017 12:53 | WG1025164 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/27/2017 12:53 | WG1025164 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/27/2017 12:53 | WG1025164 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/27/2017 12:53* | WG1025164 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *09/27/2017 12:53* | WG1025164 |
| *(S) 4-Bromofluorobenzene* | *90.9* | | | *80.0-120* | | *09/27/2017 12:53* | WG1025164 |

## Method Blank (MB)

(MB) R3252964-1 09/27/17 15:46

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L938855-01 Original Sample (OS) • Duplicate (DUP)

(OS) L938855-01 09/27/17 15:46 • (DUP) R3252964-3 09/27/17 15:46

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 82.9 | 82.7 | 1 | 0.000 | | 5 |

## Laboratory Control Sample (LCS)

(LCS) R3252964-2 09/27/17 15:46

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3254115-3 09/26/17 11:36

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3254115-3 09/26/17 11:36

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3254115-1 09/26/17 10:17 • (LCSD) R3254115-2 09/26/17 10:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.142 | 0.132 | 113 | 106 | 11.0-160 | | | 7.05 | 23 |
| Acrylonitrile | 0.125 | 0.103 | 0.102 | 82.1 | 81.5 | 61.0-143 | | | 0.810 | 20 |
| Benzene | 0.0250 | 0.0254 | 0.0253 | 102 | 101 | 71.0-124 | | | 0.380 | 20 |
| Bromobenzene | 0.0250 | 0.0244 | 0.0242 | 97.6 | 96.9 | 78.0-120 | | | 0.650 | 20 |
| Bromodichloromethane | 0.0250 | 0.0241 | 0.0240 | 96.6 | 96.1 | 75.0-120 | | | 0.530 | 20 |
| Bromoform | 0.0250 | 0.0238 | 0.0238 | 95.4 | 95.4 | 65.0-133 | | | 0.0100 | 20 |
| Bromomethane | 0.0250 | 0.0308 | 0.0307 | 123 | 123 | 26.0-160 | | | 0.170 | 20 |
| Bromochloromethane | 0.0250 | 0.0258 | 0.0262 | 103 | 105 | 80.0-121 | | | 1.40 | 20 |
| n-Butylbenzene | 0.0250 | 0.0290 | 0.0285 | 116 | 114 | 73.0-126 | | | 1.64 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0276 | 0.0274 | 111 | 110 | 75.0-121 | | | 0.750 | 20 |
| Carbon disulfide | 0.0250 | 0.0279 | 0.0280 | 111 | 112 | 53.0-130 | | | 0.560 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0263 | 0.0264 | 105 | 105 | 74.0-122 | | | 0.0500 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0261 | 0.0255 | 105 | 102 | 66.0-123 | | | 2.40 | 20 |
| Chlorobenzene | 0.0250 | 0.0266 | 0.0262 | 106 | 105 | 79.0-121 | | | 1.67 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0256 | 0.0253 | 102 | 101 | 74.0-128 | | | 1.14 | 20 |
| Chloroethane | 0.0250 | 0.0281 | 0.0282 | 112 | 113 | 51.0-147 | | | 0.100 | 20 |
| Chloroform | 0.0250 | 0.0267 | 0.0264 | 107 | 105 | 73.0-123 | | | 1.07 | 20 |
| Chloromethane | 0.0250 | 0.0238 | 0.0235 | 95.1 | 94.2 | 51.0-138 | | | 0.970 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0259 | 0.0259 | 104 | 104 | 72.0-124 | | | 0.0700 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0215 | 0.0214 | 86.0 | 85.5 | 65.0-126 | | | 0.570 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0251 | 0.0250 | 101 | 100 | 78.0-120 | | | 0.410 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0236 | 0.0233 | 94.4 | 93.3 | 78.0-122 | | | 1.20 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0250 | 0.0247 | 100 | 99.0 | 80.0-120 | | | 1.23 | 20 |
| Dibromomethane | 0.0250 | 0.0245 | 0.0240 | 97.8 | 96.2 | 79.0-120 | | | 1.71 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0251 | 0.0248 | 100 | 99.1 | 72.0-123 | | | 1.34 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0259 | 0.0258 | 103 | 103 | 77.0-120 | | | 0.130 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0280 | 0.0277 | 112 | 111 | 49.0-155 | | | 1.02 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0261 | 0.0261 | 105 | 104 | 70.0-128 | | | 0.140 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0217 | 0.0213 | 86.8 | 85.4 | 68.0-126 | | | 1.63 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0266 | 0.0261 | 106 | 104 | 69.0-128 | | | 2.02 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0275 | 0.0273 | 110 | 109 | 63.0-131 | | | 1.03 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0258 | 0.0256 | 103 | 103 | 74.0-123 | | | 0.440 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0266 | 0.0264 | 106 | 106 | 72.0-122 | | | 0.620 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0243 | 0.0240 | 97.1 | 95.9 | 75.0-126 | | | 1.26 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0264 | 0.0258 | 105 | 103 | 72.0-130 | | | 2.24 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0238 | 0.0235 | 95.2 | 94.1 | 80.0-121 | | | 1.17 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0260 | 0.0262 | 104 | 105 | 80.0-125 | | | 0.440 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0253 | 0.0250 | 101 | 99.9 | 75.0-129 | | | 1.25 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0260 | 0.0261 | 104 | 105 | 60.0-129 | | | 0.620 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0234 | 0.0244 | 93.5 | 97.5 | 62.0-133 | | | 4.18 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3254115-1 09/26/17 10:17 • (LCSD) R3254115-2 09/26/17 10:43

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0262 | 0.0257 | 105 | 103 | 77.0-120 | | | 1.97 | 20 |
| 2-Hexanone | 0.125 | 0.115 | 0.110 | 92.2 | 87.8 | 61.0-143 | | | 4.85 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0300 | 0.0301 | 120 | 120 | 68.0-128 | | | 0.170 | 20 |
| Isopropylbenzene | 0.0250 | 0.0254 | 0.0251 | 102 | 100 | 75.0-120 | | | 1.14 | 20 |
| n-Hexane | 0.0250 | 0.0270 | 0.0266 | 108 | 107 | 57.0-125 | | | 1.20 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.116 | 0.109 | 92.4 | 86.9 | 37.0-159 | | | 6.15 | 20 |
| Iodomethane | 0.125 | 0.149 | 0.148 | 119 | 118 | 67.0-132 | | | 0.440 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0289 | 0.0283 | 116 | 113 | 74.0-125 | | | 2.22 | 20 |
| Methylene Chloride | 0.0250 | 0.0279 | 0.0281 | 112 | 112 | 67.0-123 | | | 0.640 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.102 | 0.0995 | 81.9 | 79.6 | 60.0-144 | | | 2.88 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0255 | 0.0252 | 102 | 101 | 66.0-125 | | | 1.00 | 20 |
| Naphthalene | 0.0250 | 0.0214 | 0.0214 | 85.5 | 85.7 | 64.0-125 | | | 0.230 | 20 |
| n-Propylbenzene | 0.0250 | 0.0279 | 0.0273 | 111 | 109 | 78.0-120 | | | 2.17 | 20 |
| Styrene | 0.0250 | 0.0256 | 0.0250 | 102 | 99.9 | 78.0-124 | | | 2.39 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0263 | 0.0258 | 105 | 103 | 74.0-124 | | | 1.82 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0233 | 0.0228 | 93.4 | 91.1 | 73.0-120 | | | 2.47 | 20 |
| Tetrachloroethene | 0.0250 | 0.0254 | 0.0251 | 102 | 100 | 70.0-127 | | | 1.33 | 20 |
| Toluene | 0.0250 | 0.0243 | 0.0241 | 97.4 | 96.4 | 77.0-120 | | | 1.00 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0282 | 0.0281 | 113 | 112 | 64.0-135 | | | 0.670 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0234 | 0.0237 | 93.7 | 94.8 | 68.0-126 | | | 1.16 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0264 | 0.0261 | 105 | 104 | 69.0-125 | | | 1.13 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0244 | 0.0238 | 97.8 | 95.2 | 70.0-127 | | | 2.63 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0237 | 0.0236 | 94.7 | 94.5 | 78.0-120 | | | 0.270 | 20 |
| Trichloroethene | 0.0250 | 0.0251 | 0.0250 | 100 | 100 | 79.0-120 | | | 0.420 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0286 | 0.0284 | 114 | 114 | 59.0-136 | | | 0.730 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0239 | 0.0233 | 95.5 | 93.1 | 73.0-124 | | | 2.59 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0240 | 0.0240 | 95.9 | 95.9 | 76.0-120 | | | 0.0700 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0261 | 0.0258 | 104 | 103 | 75.0-120 | | | 1.28 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0265 | 0.0261 | 106 | 104 | 75.0-120 | | | 1.83 | 20 |
| Vinyl chloride | 0.0250 | 0.0272 | 0.0269 | 109 | 108 | 63.0-134 | | | 1.12 | 20 |
| Xylenes, Total | 0.0750 | 0.0786 | 0.0775 | 105 | 103 | 77.0-120 | | | 1.41 | 20 |
| Vinyl acetate | 0.125 | 0.134 | 0.133 | 107 | 107 | 58.0-156 | | | 0.750 | 20 |
| *(S) Toluene-d8* | | | | *102* | *101* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *109* | *107* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *98.7* | *98.1* | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3253106-3 09/26/17 19:54

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0100 | 0.0500 |
| Acrylonitrile | U | | 0.00179 | 0.0100 |
| Benzene | U | | 0.000270 | 0.00100 |
| Bromobenzene | U | | 0.000284 | 0.00100 |
| Bromodichloromethane | U | | 0.000254 | 0.00100 |
| Bromochloromethane | U | | 0.000390 | 0.00500 |
| Bromoform | U | | 0.000424 | 0.00100 |
| Bromomethane | U | | 0.00134 | 0.00500 |
| n-Butylbenzene | U | | 0.000258 | 0.00100 |
| sec-Butylbenzene | U | | 0.000201 | 0.00100 |
| tert-Butylbenzene | U | | 0.000206 | 0.00100 |
| Carbon disulfide | U | | 0.000221 | 0.00100 |
| Carbon tetrachloride | U | | 0.000328 | 0.00100 |
| Chlorobenzene | U | | 0.000212 | 0.00100 |
| Chlorodibromomethane | U | | 0.000373 | 0.00100 |
| Chloroethane | U | | 0.000946 | 0.00500 |
| Chloroform | U | | 0.000229 | 0.00500 |
| Chloromethane | U | | 0.000375 | 0.00250 |
| 2-Chlorotoluene | U | | 0.000301 | 0.00100 |
| 4-Chlorotoluene | U | | 0.000240 | 0.00100 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00105 | 0.00500 |
| 1,2-Dibromoethane | U | | 0.000343 | 0.00100 |
| Dibromomethane | U | | 0.000382 | 0.00100 |
| 1,2-Dichlorobenzene | U | | 0.000305 | 0.00100 |
| 1,3-Dichlorobenzene | U | | 0.000239 | 0.00100 |
| 1,4-Dichlorobenzene | U | | 0.000226 | 0.00100 |
| trans-1,4-Dichloro-2-butene | U | | 0.000778 | 0.00250 |
| Dichlorodifluoromethane | U | | 0.000713 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000199 | 0.00100 |
| 1,2-Dichloroethane | U | | 0.000265 | 0.00100 |
| 1,1-Dichloroethene | U | | 0.000303 | 0.00100 |
| cis-1,2-Dichloroethene | U | | 0.000235 | 0.00100 |
| trans-1,2-Dichloroethene | U | | 0.000264 | 0.00100 |
| 1,2-Dichloropropane | U | | 0.000358 | 0.00100 |
| 1,1-Dichloropropene | U | | 0.000317 | 0.00100 |
| 1,3-Dichloropropane | U | | 0.000207 | 0.00100 |
| cis-1,3-Dichloropropene | U | | 0.000262 | 0.00100 |
| trans-1,3-Dichloropropene | U | | 0.000267 | 0.00100 |
| 2,2-Dichloropropane | U | | 0.000279 | 0.00100 |
| Di-isopropyl ether | U | | 0.000248 | 0.00100 |

## Method Blank (MB)

(MB) R3253106-3 09/26/17 19:54

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.000297 | 0.00100 |
| n-Hexane | U | | 0.000290 | 0.0100 |
| Hexachloro-1,3-butadiene | U | | 0.000342 | 0.00100 |
| Iodomethane | U | | 0.00253 | 0.0100 |
| 2-Hexanone | U | | 0.00137 | 0.0100 |
| Isopropylbenzene | U | | 0.000243 | 0.00100 |
| p-Isopropyltoluene | U | | 0.000204 | 0.00100 |
| 2-Butanone (MEK) | U | | 0.00468 | 0.0100 |
| Methylene Chloride | U | | 0.00100 | 0.00500 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00188 | 0.0100 |
| Methyl tert-butyl ether | U | | 0.000212 | 0.00100 |
| Naphthalene | U | | 0.00100 | 0.00500 |
| n-Propylbenzene | U | | 0.000206 | 0.00100 |
| Styrene | U | | 0.000234 | 0.00100 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000264 | 0.00100 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000365 | 0.00100 |
| Tetrachloroethene | U | | 0.000276 | 0.00100 |
| Toluene | U | | 0.000434 | 0.00500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000365 | 0.00100 |
| 1,2,3-Trichlorobenzene | U | | 0.000306 | 0.00100 |
| 1,2,4-Trichlorobenzene | U | | 0.000388 | 0.00100 |
| 1,1,1-Trichloroethane | U | | 0.000286 | 0.00100 |
| 1,1,2-Trichloroethane | U | | 0.000277 | 0.00100 |
| Trichloroethene | U | | 0.000279 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000382 | 0.00500 |
| Vinyl acetate | U | | 0.00239 | 0.0100 |
| 1,2,3-Trichloropropane | U | | 0.000741 | 0.00250 |
| 1,2,3-Trimethylbenzene | U | | 0.000287 | 0.00100 |
| 1,2,4-Trimethylbenzene | U | | 0.000211 | 0.00100 |
| 1,3,5-Trimethylbenzene | U | | 0.000266 | 0.00100 |
| Vinyl chloride | U | | 0.000291 | 0.00100 |
| Xylenes, Total | U | | 0.000698 | 0.00300 |
| *(S) Toluene-d8* | *117* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *101* | | | *74.0-131* |
| *(S) 4-Bromofluorobenzene* | *111* | | | *64.0-132* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3253106-1 09/26/17 18:54 • (LCSD) R3253106-2 09/26/17 19:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.125 | 0.0989 | 0.0850 | 79.1 | 68.0 | 11.0-160 | | | 15.1 | 23 |
| Acrylonitrile | 0.125 | 0.0957 | 0.0917 | 76.5 | 73.4 | 61.0-143 | | | 4.23 | 20 |
| Benzene | 0.0250 | 0.0224 | 0.0216 | 89.5 | 86.3 | 71.0-124 | | | 3.64 | 20 |
| Bromobenzene | 0.0250 | 0.0233 | 0.0237 | 93.0 | 94.9 | 78.0-120 | | | 1.95 | 20 |
| Bromodichloromethane | 0.0250 | 0.0243 | 0.0230 | 97.2 | 92.0 | 75.0-120 | | | 5.47 | 20 |
| Bromoform | 0.0250 | 0.0253 | 0.0252 | 101 | 101 | 65.0-133 | | | 0.460 | 20 |
| Bromochloromethane | 0.0250 | 0.0249 | 0.0241 | 99.6 | 96.5 | 80.0-121 | | | 3.20 | 20 |
| Bromomethane | 0.0250 | 0.0195 | 0.0187 | 78.1 | 75.0 | 26.0-160 | | | 4.13 | 20 |
| n-Butylbenzene | 0.0250 | 0.0223 | 0.0227 | 89.3 | 90.9 | 73.0-126 | | | 1.80 | 20 |
| sec-Butylbenzene | 0.0250 | 0.0235 | 0.0235 | 93.9 | 94.0 | 75.0-121 | | | 0.130 | 20 |
| tert-Butylbenzene | 0.0250 | 0.0230 | 0.0226 | 92.2 | 90.6 | 74.0-122 | | | 1.74 | 20 |
| Carbon tetrachloride | 0.0250 | 0.0204 | 0.0198 | 81.6 | 79.4 | 66.0-123 | | | 2.74 | 20 |
| Carbon disulfide | 0.0250 | 0.0215 | 0.0205 | 85.8 | 81.9 | 53.0-130 | | | 4.70 | 20 |
| Chlorobenzene | 0.0250 | 0.0249 | 0.0249 | 99.5 | 99.8 | 79.0-121 | | | 0.300 | 20 |
| Chlorodibromomethane | 0.0250 | 0.0243 | 0.0244 | 97.4 | 97.5 | 74.0-128 | | | 0.140 | 20 |
| Chloroethane | 0.0250 | 0.0213 | 0.0203 | 85.4 | 81.4 | 51.0-147 | | | 4.79 | 20 |
| Chloroform | 0.0250 | 0.0226 | 0.0221 | 90.6 | 88.2 | 73.0-123 | | | 2.63 | 20 |
| Chloromethane | 0.0250 | 0.0186 | 0.0180 | 74.5 | 72.2 | 51.0-138 | | | 3.20 | 20 |
| 2-Chlorotoluene | 0.0250 | 0.0236 | 0.0236 | 94.5 | 94.2 | 72.0-124 | | | 0.240 | 20 |
| 4-Chlorotoluene | 0.0250 | 0.0233 | 0.0237 | 93.2 | 94.9 | 78.0-120 | | | 1.81 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.0250 | 0.0199 | 0.0206 | 79.6 | 82.5 | 65.0-126 | | | 3.62 | 20 |
| 1,2-Dibromoethane | 0.0250 | 0.0264 | 0.0262 | 106 | 105 | 78.0-122 | | | 0.590 | 20 |
| Dibromomethane | 0.0250 | 0.0220 | 0.0218 | 87.9 | 87.1 | 79.0-120 | | | 0.900 | 20 |
| 1,2-Dichlorobenzene | 0.0250 | 0.0226 | 0.0232 | 90.6 | 92.7 | 80.0-120 | | | 2.26 | 20 |
| 1,3-Dichlorobenzene | 0.0250 | 0.0234 | 0.0233 | 93.4 | 93.3 | 72.0-123 | | | 0.130 | 20 |
| 1,4-Dichlorobenzene | 0.0250 | 0.0233 | 0.0234 | 93.4 | 93.5 | 77.0-120 | | | 0.140 | 20 |
| Dichlorodifluoromethane | 0.0250 | 0.0199 | 0.0188 | 79.5 | 75.2 | 49.0-155 | | | 5.56 | 20 |
| trans-1,4-Dichloro-2-butene | 0.0250 | 0.0208 | 0.0219 | 83.2 | 87.6 | 68.0-126 | | | 5.18 | 20 |
| 1,1-Dichloroethane | 0.0250 | 0.0234 | 0.0223 | 93.7 | 89.0 | 70.0-128 | | | 5.08 | 20 |
| 1,2-Dichloroethane | 0.0250 | 0.0229 | 0.0221 | 91.6 | 88.2 | 69.0-128 | | | 3.69 | 20 |
| 1,1-Dichloroethene | 0.0250 | 0.0219 | 0.0208 | 87.8 | 83.2 | 63.0-131 | | | 5.43 | 20 |
| cis-1,2-Dichloroethene | 0.0250 | 0.0235 | 0.0221 | 94.2 | 88.4 | 74.0-123 | | | 6.32 | 20 |
| trans-1,2-Dichloroethene | 0.0250 | 0.0233 | 0.0226 | 93.4 | 90.6 | 72.0-122 | | | 3.03 | 20 |
| 1,2-Dichloropropane | 0.0250 | 0.0239 | 0.0234 | 95.6 | 93.5 | 75.0-126 | | | 2.19 | 20 |
| 1,1-Dichloropropene | 0.0250 | 0.0224 | 0.0217 | 89.7 | 86.8 | 72.0-130 | | | 3.29 | 20 |
| 1,3-Dichloropropane | 0.0250 | 0.0250 | 0.0255 | 100 | 102 | 80.0-121 | | | 1.67 | 20 |
| cis-1,3-Dichloropropene | 0.0250 | 0.0278 | 0.0279 | 111 | 112 | 80.0-125 | | | 0.260 | 20 |
| trans-1,3-Dichloropropene | 0.0250 | 0.0270 | 0.0267 | 108 | 107 | 75.0-129 | | | 1.06 | 20 |
| 2,2-Dichloropropane | 0.0250 | 0.0169 | 0.0167 | 67.6 | 66.6 | 60.0-129 | | | 1.49 | 20 |
| Di-isopropyl ether | 0.0250 | 0.0203 | 0.0198 | 81.2 | 79.1 | 62.0-133 | | | 2.68 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3253106-1 09/26/17 18:54 • (LCSD) R3253106-2 09/26/17 19:14

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.0250 | 0.0241 | 0.0238 | 96.4 | 95.1 | 77.0-120 | | | 1.30 | 20 |
| Hexachloro-1,3-butadiene | 0.0250 | 0.0239 | 0.0245 | 95.6 | 97.9 | 68.0-128 | | | 2.33 | 20 |
| 2-Hexanone | 0.125 | 0.105 | 0.0995 | 84.4 | 79.6 | 61.0-143 | | | 5.87 | 20 |
| Isopropylbenzene | 0.0250 | 0.0232 | 0.0231 | 92.6 | 92.3 | 75.0-120 | | | 0.300 | 20 |
| n-Hexane | 0.0250 | 0.0205 | 0.0195 | 82.1 | 78.1 | 57.0-125 | | | 4.98 | 20 |
| Iodomethane | 0.125 | 0.114 | 0.108 | 91.4 | 86.4 | 67.0-132 | | | 5.65 | 20 |
| p-Isopropyltoluene | 0.0250 | 0.0244 | 0.0243 | 97.5 | 97.2 | 74.0-125 | | | 0.360 | 20 |
| 2-Butanone (MEK) | 0.125 | 0.0960 | 0.0863 | 76.8 | 69.1 | 37.0-159 | | | 10.6 | 20 |
| Methylene Chloride | 0.0250 | 0.0215 | 0.0208 | 86.0 | 83.2 | 67.0-123 | | | 3.26 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.125 | 0.0907 | 0.0894 | 72.5 | 71.5 | 60.0-144 | | | 1.47 | 20 |
| Methyl tert-butyl ether | 0.0250 | 0.0190 | 0.0182 | 75.9 | 72.9 | 66.0-125 | | | 3.92 | 20 |
| Naphthalene | 0.0250 | 0.0219 | 0.0224 | 87.4 | 89.6 | 64.0-125 | | | 2.45 | 20 |
| n-Propylbenzene | 0.0250 | 0.0239 | 0.0238 | 95.7 | 95.2 | 78.0-120 | | | 0.490 | 20 |
| Styrene | 0.0250 | 0.0251 | 0.0251 | 100 | 100 | 78.0-124 | | | 0.0200 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.0250 | 0.0222 | 0.0227 | 88.7 | 90.8 | 74.0-124 | | | 2.31 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.0250 | 0.0216 | 0.0218 | 86.2 | 87.0 | 73.0-120 | | | 0.930 | 20 |
| Tetrachloroethene | 0.0250 | 0.0264 | 0.0258 | 105 | 103 | 70.0-127 | | | 2.05 | 20 |
| Toluene | 0.0250 | 0.0240 | 0.0235 | 95.9 | 94.1 | 77.0-120 | | | 1.97 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.0250 | 0.0197 | 0.0186 | 79.0 | 74.6 | 64.0-135 | | | 5.77 | 20 |
| 1,2,3-Trichlorobenzene | 0.0250 | 0.0241 | 0.0248 | 96.3 | 99.0 | 68.0-126 | | | 2.82 | 20 |
| 1,2,4-Trichlorobenzene | 0.0250 | 0.0229 | 0.0234 | 91.4 | 93.7 | 70.0-127 | | | 2.49 | 20 |
| 1,1,1-Trichloroethane | 0.0250 | 0.0211 | 0.0200 | 84.2 | 80.1 | 69.0-125 | | | 5.01 | 20 |
| 1,1,2-Trichloroethane | 0.0250 | 0.0243 | 0.0246 | 97.1 | 98.4 | 78.0-120 | | | 1.29 | 20 |
| Trichloroethene | 0.0250 | 0.0230 | 0.0222 | 91.8 | 89.0 | 79.0-120 | | | 3.13 | 20 |
| Trichlorofluoromethane | 0.0250 | 0.0213 | 0.0199 | 85.1 | 79.4 | 59.0-136 | | | 6.90 | 20 |
| 1,2,3-Trichloropropane | 0.0250 | 0.0215 | 0.0216 | 85.8 | 86.3 | 73.0-124 | | | 0.530 | 20 |
| 1,2,3-Trimethylbenzene | 0.0250 | 0.0207 | 0.0209 | 83.0 | 83.6 | 76.0-120 | | | 0.780 | 20 |
| 1,2,4-Trimethylbenzene | 0.0250 | 0.0224 | 0.0226 | 89.8 | 90.2 | 75.0-120 | | | 0.540 | 20 |
| 1,3,5-Trimethylbenzene | 0.0250 | 0.0235 | 0.0234 | 94.1 | 93.4 | 75.0-120 | | | 0.650 | 20 |
| Vinyl chloride | 0.0250 | 0.0213 | 0.0200 | 85.1 | 80.0 | 63.0-134 | | | 6.11 | 20 |
| Xylenes, Total | 0.0750 | 0.0725 | 0.0718 | 96.7 | 95.7 | 77.0-120 | | | 0.970 | 20 |
| Vinyl acetate | 0.125 | 0.121 | 0.117 | 96.9 | 93.7 | 58.0-156 | | | 3.43 | 20 |
| *(S) Toluene-d8* | | | | *113* | *114* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *103* | *101* | *74.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *107* | *109* | *64.0-132* | | | | |

## Method Blank (MB)

(MB) R3253064-3 09/27/17 12:05

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | 1.10 | J | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3253064-3 09/27/17 12:05

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | 0.178 | J | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *89.9* | | | *80.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3253064-1 09/27/17 10:50

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 125 | 202 | 162 | 10.0-160 | J4 |
| Acrylonitrile | 125 | 139 | 111 | 60.0-142 | |
| Benzene | 25.0 | 26.0 | 104 | 69.0-123 | |
| Bromobenzene | 25.0 | 23.9 | 95.5 | 79.0-120 | |
| Bromodichloromethane | 25.0 | 24.6 | 98.3 | 76.0-120 | |
| Bromochloromethane | 25.0 | 25.8 | 103 | 76.0-122 | |
| Bromoform | 25.0 | 25.4 | 102 | 67.0-132 | |
| Bromomethane | 25.0 | 30.3 | 121 | 18.0-160 | |
| n-Butylbenzene | 25.0 | 27.2 | 109 | 72.0-126 | |
| sec-Butylbenzene | 25.0 | 26.5 | 106 | 74.0-121 | |
| tert-Butylbenzene | 25.0 | 25.3 | 101 | 75.0-122 | |
| Carbon disulfide | 25.0 | 25.5 | 102 | 55.0-127 | |
| Carbon tetrachloride | 25.0 | 25.3 | 101 | 63.0-122 | |
| Chlorobenzene | 25.0 | 26.0 | 104 | 79.0-121 | |
| Chlorodibromomethane | 25.0 | 26.7 | 107 | 75.0-125 | |
| Chloroethane | 25.0 | 32.5 | 130 | 47.0-152 | |
| Chloroform | 25.0 | 25.7 | 103 | 72.0-121 | |
| Chloromethane | 25.0 | 28.7 | 115 | 48.0-139 | |
| 2-Chlorotoluene | 25.0 | 24.4 | 97.5 | 74.0-122 | |
| 4-Chlorotoluene | 25.0 | 24.2 | 96.9 | 79.0-120 | |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 25.1 | 101 | 64.0-127 | |
| 1,2-Dibromoethane | 25.0 | 25.5 | 102 | 77.0-123 | |
| Dibromomethane | 25.0 | 25.4 | 102 | 78.0-120 | |
| 1,2-Dichlorobenzene | 25.0 | 25.9 | 104 | 80.0-120 | |
| 1,3-Dichlorobenzene | 25.0 | 25.3 | 101 | 72.0-123 | |
| 1,4-Dichlorobenzene | 25.0 | 25.2 | 101 | 77.0-120 | |
| Dichlorodifluoromethane | 25.0 | 33.9 | 136 | 49.0-155 | |
| 1,1-Dichloroethane | 25.0 | 26.3 | 105 | 70.0-126 | |
| 1,2-Dichloroethane | 25.0 | 26.8 | 107 | 67.0-126 | |
| 1,1-Dichloroethene | 25.0 | 25.5 | 102 | 64.0-129 | |
| cis-1,2-Dichloroethene | 25.0 | 25.4 | 102 | 73.0-120 | |
| trans-1,2-Dichloroethene | 25.0 | 25.9 | 104 | 71.0-121 | |
| 1,2-Dichloropropane | 25.0 | 26.2 | 105 | 75.0-125 | |
| 1,1-Dichloropropene | 25.0 | 26.6 | 107 | 71.0-129 | |
| 1,3-Dichloropropane | 25.0 | 26.1 | 105 | 80.0-121 | |
| cis-1,3-Dichloropropene | 25.0 | 26.1 | 105 | 79.0-123 | |
| trans-1,3-Dichloropropene | 25.0 | 25.9 | 104 | 74.0-127 | |
| trans-1,4-Dichloro-2-butene | 25.0 | 18.5 | 73.8 | 55.0-134 | |
| 2,2-Dichloropropane | 25.0 | 25.8 | 103 | 60.0-125 | |
| Di-isopropyl ether | 25.0 | 25.7 | 103 | 59.0-133 | |

## Laboratory Control Sample (LCS)

(LCS) R3253064-1 09/27/17 10:50

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 25.5 | 102 | 77.0-120 | |
| Hexachloro-1,3-butadiene | 25.0 | 25.6 | 102 | 64.0-131 | |
| 2-Hexanone | 125 | 146 | 116 | 58.0-147 | |
| n-Hexane | 25.0 | 27.5 | 110 | 56.0-124 | |
| Iodomethane | 125 | 127 | 102 | 57.0-140 | |
| Isopropylbenzene | 25.0 | 24.6 | 98.3 | 75.0-120 | |
| p-Isopropyltoluene | 25.0 | 26.7 | 107 | 74.0-126 | |
| 2-Butanone (MEK) | 125 | 143 | 114 | 37.0-158 | |
| Methylene Chloride | 25.0 | 25.6 | 102 | 66.0-121 | |
| 4-Methyl-2-pentanone (MIBK) | 125 | 129 | 103 | 59.0-143 | |
| Methyl tert-butyl ether | 25.0 | 25.8 | 103 | 64.0-123 | |
| Naphthalene | 25.0 | 25.3 | 101 | 62.0-128 | |
| n-Propylbenzene | 25.0 | 24.8 | 99.2 | 79.0-120 | |
| Styrene | 25.0 | 23.9 | 95.8 | 78.0-124 | |
| 1,1,1,2-Tetrachloroethane | 25.0 | 25.8 | 103 | 75.0-122 | |
| 1,1,2,2-Tetrachloroethane | 25.0 | 24.3 | 97.2 | 71.0-122 | |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 26.8 | 107 | 61.0-136 | |
| Tetrachloroethene | 25.0 | 25.7 | 103 | 70.0-127 | |
| Toluene | 25.0 | 25.4 | 102 | 77.0-120 | |
| 1,2,3-Trichlorobenzene | 25.0 | 25.2 | 101 | 61.0-133 | |
| 1,2,4-Trichlorobenzene | 25.0 | 25.2 | 101 | 69.0-129 | |
| 1,1,1-Trichloroethane | 25.0 | 26.2 | 105 | 68.0-122 | |
| 1,1,2-Trichloroethane | 25.0 | 25.8 | 103 | 78.0-120 | |
| Trichloroethene | 25.0 | 25.6 | 103 | 78.0-120 | |
| Trichlorofluoromethane | 25.0 | 28.5 | 114 | 56.0-137 | |
| 1,2,3-Trichloropropane | 25.0 | 24.3 | 97.3 | 72.0-124 | |
| 1,2,4-Trimethylbenzene | 25.0 | 24.5 | 98.0 | 75.0-120 | |
| 1,2,3-Trimethylbenzene | 25.0 | 26.2 | 105 | 75.0-120 | |
| 1,3,5-Trimethylbenzene | 25.0 | 24.6 | 98.2 | 75.0-120 | |
| Vinyl acetate | 125 | 137 | 110 | 46.0-160 | |
| Vinyl chloride | 25.0 | 32.9 | 131 | 64.0-133 | |
| Xylenes, Total | 75.0 | 76.7 | 102 | 77.0-120 | |
| *(S) Toluene-d8* | | | *103* | *80.0-120* | |
| *(S) Dibromofluoromethane* | | | *102* | *76.0-123* | |
| *(S) 4-Bromofluorobenzene* | | | *92.9* | *80.0-120* | |

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | |
|---|---|
| Alabama | 40660 |
| Alaska | UST-080 |
| Arizona | AZ0612 |
| Arkansas | 88-0469 |
| California | 01157CA |
| Colorado | TN00003 |
| Conneticut | PH-0197 |
| Florida | E87487 |
| Georgia | NELAP |
| Georgia [1] | 923 |
| Idaho | TN00003 |
| Illinois | 200008 |
| Indiana | C-TN-01 |
| Iowa | 364 |
| Kansas | E-10277 |
| Kentucky [1] | 90010 |
| Kentucky [2] | 16 |
| Louisiana | AI30792 |
| Maine | TN0002 |
| Maryland | 324 |
| Massachusetts | M-TN003 |
| Michigan | 9958 |
| Minnesota | 047-999-395 |
| Mississippi | TN00003 |
| Missouri | 340 |
| Montana | CERT0086 |
| Nebraska | NE-OS-15-05 |
| Nevada | TN-03-2002-34 |
| New Hampshire | 2975 |
| New Jersey–NELAP | TN002 |
| New Mexico | TN00003 |
| New York | 11742 |
| North Carolina | Env375 |
| North Carolina [1] | DW21704 |
| North Carolina [2] | 41 |
| North Dakota | R-140 |
| Ohio–VAP | CL0069 |
| Oklahoma | 9915 |
| Oregon | TN200002 |
| Pennsylvania | 68-02979 |
| Rhode Island | 221 |
| South Carolina | 84004 |
| South Dakota | n/a |
| Tennessee [1 4] | 2006 |
| Texas | T 104704245-07-TX |
| Texas [5] | LAB0152 |
| Utah | 6157585858 |
| Vermont | VT2006 |
| Virginia | 109 |
| Washington | C1915 |
| West Virginia | 233 |
| Wisconsin | 9980939910 |
| Wyoming | A2LA |

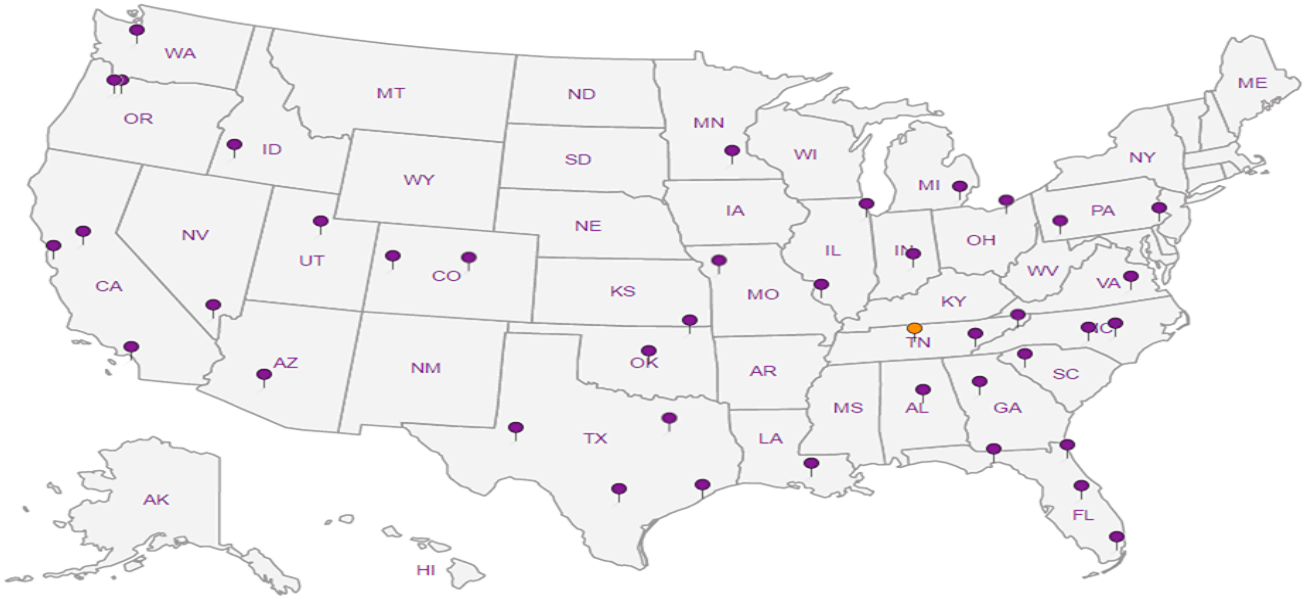
## Third Party & Federal Accreditations

| | |
|---|---|
| A2LA – ISO 17025 | 1461.01 |
| A2LA – ISO 17025 [5] | 1461.02 |
| Canada | 1461.01 |
| EPA–Crypto | TN00003 |
| AIHA-LAP,LLC | 100789 |
| DOD | 1461.01 |
| USDA | S-67674 |

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: **Bill Haldeman**

Email To: **bhaldeman@pesenv.com**

Project Description: **American Linen Project**

City/State Collected: SEATTLE, WA

Phone: **206-529-3980**
Fax: **206-529-3985**

Client Project # 1413.001.02.602

Lab Project # **PESENVSWA-ALP**

Collected by (print): SHANNON MCKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ~~NWTPHGX 2ozClr-NoPres~~ TS | NWTPHGX 40ml/NaHS04/Syr/MeOH | VOC 8260C 2ozClr-NoPres 40 ml/HCl | VOC 8260C 40ml/NaHS04/Syr/MeOH | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-223-16 | GRAB | SS | 16 | 9/21/17 | 1545 | 5 | X | | | X | | -01 |
| B-223-22 | | SS | 22 | | 1600 | 5 | X | | | X | | -02 |
| B-223-30 | | SS | 30 | | 1625 | 5 | X | | | X | | -03 |
| B-223-39 | | SS | 39 | | 1640 | 5 | X | | | X | | -04 |
| B-223-47 | | SS | 47 | | ~~1730~~ 1710 | 5 | X | | | X | | -05 |
| B-917-57 | | SS | 57 | | ~~1710~~ 1730 | 5 | X | | | X | | -06 |
| MW-140-092217 | | SS | 134 | 9/22/17 | 1050 | 6 | | | X | | | -07 |
| MW-134-092217 | | SS | 85 | | 0850 | 6 | | | X | | | -08 |
| MW-141-092217 | | SS | 100 | | 1230 | 6 | | | X | | | -09 |
| B-917-100-W | | SS | 100 | | 0930 | 6 | | | X | | | -10 |

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LAB SCIENCES
a subsidiary of Accutest

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 938873

Table # B067

Acctnum: PESENVSWA

Template: T127855

Prelogin: P618512

TSR: 110 - Brian Ford

PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

**Remarks:**

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier __ _____

Tracking # 7474 0921 0344

Sample Receipt Checklist

| | | |
|---|---|---|
| COC Seal Present/Intact: | NP | Y N |
| COC Signed/Accurate: | | Y N |
| Bottles arrive intact: | | Y N |
| Correct bottles used: | | Y N |
| Sufficient volume sent: | | Y N |
| If Applicable | | |
| VOA Zero Headspace: | | Y N |
| Preservation Correct/Checked: | | Y N |

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 9/22/17 | 1500 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| | | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | |

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 2.0 °C Bottles Received: 54

Date: 9/23/17 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Ste. 1350
Seattle, WA 98161

Pres Chk

Report to: Bill Haldeman

Email To: bhaldeman@pesenv.com

Project Description: American Linen Project

City/State Collected:

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # 1413.001.02.602

Lab Project # PESENVSWA-ALP

Collected by (print): SHANNON McKERNAN

Site/Facility ID # 1413.001.02.602

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

*Rush?* (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NWTPHGX 2oz Clr-NoPres | NWTPHGX 40ml/NaHS04/Syr/MeOH | VOC 8260C 2oz Clr-NoPres 40mL/HCl | VOC 8260C 40ml/NaHS04/Syr/MeOH | | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TRIPBLANK-092217 | NA | ~~NA~~ SS | NA | 5/15/17 | NA | 1 | | | X | | | | | | | | | -11 |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LAB SCIENCES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 938873

Table #

Acctnum: PESENVSWA

Template: T127855

Prelogin: P618512

TSR: 110 - Brian Ford

PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other:

Remarks:

pH ___ Temp ___

Flow ___ Other ___

Samples returned via:
__ UPS X FedEx __ Courier

Tracking # 7474 0921 0374

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| | 9/22/17 | 1500 | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: 2.0 °C Bottles Received: 54 |
| | | | | If preservation required by Login: Date/Time |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 9/23/17 Time: 0845 |
| | | | | Hold: Condition: NCF OK |

# MEMORANDUM

**TO:** Project File **DATE:** October 18, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** September 21-22, 2017 – Soil and Groundwater Samples

**LAB:** ESC Lab ID L938873

---

Six (6) soil samples including one field duplicate, four (4) groundwater samples including one field duplicate, and a trip blank were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 21-22, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C; and
- Total Solids by Standard Methods 2540 G-2011.

The results are reported in ESC Sample Delivery Group (SDG) L938873. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L938873 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested with the following comment:

- The chain of custody shows a soil matrix (SS) for all four groundwater samples. The chain of custody should show groundwater (GW) under the matrix column for samples MW-140-092217, MW-134-092217, MW-141-092217, and B-917-100-W.

## Sample Collection and Preservation

Samples were collected on September 21-22, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 2.8 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for soils and preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Total Solids):*
Samples were analyzed within the USEPA recommended holding time of seven days for total solids. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for bromomethane and 4-methyl-2-pentanone (MIBK) associated with analytical batch WG1024797 (analyzed on September 26, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acrylonitrile, 1,2-dibromo-3-chloropropane, and 4-methyl-2-pentanone (MIBK) associated with analytical batch WG1024797 (analyzed on October 2, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for trans-1,4-dichloro-2-butene associated with analytical batch WG1025164 (analyzed on September 27, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All**

**associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at or above the reported detection limits (RDLs) with one exception:

- Batch WG1025164 (waters): Acetone and hexachloro-1,3-butadiene are detected above the method detection limit (MDL) and below the RDL in the method blank. **Associated acetone detections in samples MW-140-092217, MW-134-092217, MW-141-092217 and B-917-100-W are qualified as not detected (U) due to blank contamination.** No action was taken for hexachloro-1,3-butadiene as it was not detected in the associated samples.

*Total Solids by SM 2540 G 2011:*
Laboratory method blank was included with the analytical batches per method requirement. The target analytes (% solids) were not detected at a significant level in the method blanks and sample results are not impacted.

## Trip Blank Results

*USEPA Method 8260C:*
A trip blank was collected and submitted for VOC analysis. The target analytes were not detected in the trip blank at or above the RDL.

## Field, Rinsate, or Equipment Blank Results

Field, rinsate, or equipment blanks were not collected.

## Field Duplicate Analyses

Two sets of field duplicate (samples B-223-47 / B-917-57 and samples MW-140-092217 / B-917-100-W) results are comparable for VOCs and less than 30% RPD with the following exception:

- Field duplicate sample pair (B-223-47 / B-917-57) RPD is greater than 30% for tetrachloroethene. **Sample field duplicate (B-223-47 / B-917-57) results for tetrachloroethene are estimated and qualified (J) due to poor field precision.**

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample

duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*Total Solids by SM 2540 G 2011:*
Laboratory duplicate sample analyses were performed on a non-client sample within the analytical batch. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 5%.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS, LCS/LCSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS and LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS and LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils and waters with the following exception:

- LCS (Batch WG1025164 for waters) % recovery for acetone is above laboratory criteria and qualified by the laboratory (J4). No action was taken on this basis since acetone was also detected at a low level in the method blank and in the associated samples. Refer to the blank section for further discussion.

*Total Solids by SM 2540 G 2011:*
The LCS %Rs for total solids are within the laboratory control criteria for soils.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD results for more information.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following exception:

- Soil samples B-223-16, B-223-22, B-223-30, B-223-39, and groundwater sample MW-134-092217 VOC results are footnoted by ESC to indicate that target compounds are too high to re-analyze at a lower dilution. No action was taken other than to note this.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.6 | | 1 | 09/27/2017 15:46 | WG1025104 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 2.36 | 11.8 | 200 | 09/26/2017 20:28 | WG1024797 |
| Acrylonitrile | U | | 0.423 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |
| Benzene | U | | 0.0638 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Bromobenzene | U | | 0.0671 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Bromodichloromethane | U | | 0.0600 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Bromochloromethane | U | | 0.0922 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| Bromoform | U | | 0.100 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Bromomethane | U UJ | J0 | 0.317 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| n-Butylbenzene | U | | 0.0610 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| sec-Butylbenzene | U | | 0.0475 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| tert-Butylbenzene | U | | 0.0487 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Carbon disulfide | U | | 0.0522 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Carbon tetrachloride | U | | 0.0775 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Chlorobenzene | U | | 0.0501 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Chlorodibromomethane | U | | 0.0881 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Chloroethane | U | | 0.223 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| Chloroform | U | | 0.0541 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| Chloromethane | U | | 0.0886 | 0.591 | 200 | 09/26/2017 20:28 | WG1024797 |
| 2-Chlorotoluene | U | | 0.0711 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 4-Chlorotoluene | U | | 0.0567 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.248 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2-Dibromoethane | U | | 0.0811 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Dibromomethane | U | | 0.0903 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2-Dichlorobenzene | U | | 0.0721 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,3-Dichlorobenzene | U | | 0.0565 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,4-Dichlorobenzene | U | | 0.0534 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Dichlorodifluoromethane | U | | 0.169 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1-Dichloroethane | U | | 0.0470 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2-Dichloroethane | U | | 0.0626 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1-Dichloroethene | U | | 0.0716 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| cis-1,2-Dichloroethene | 1.71 | | 0.0555 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| trans-1,2-Dichloroethene | U | | 0.0624 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2-Dichloropropane | 0.203 J | J | 0.0846 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1-Dichloropropene | U | | 0.0749 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,3-Dichloropropane | U | | 0.0489 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| cis-1,3-Dichloropropene | U | | 0.0619 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| trans-1,3-Dichloropropene | U | | 0.0631 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| trans-1,4-Dichloro-2-butene | U | | 0.184 | 0.591 | 200 | 09/26/2017 20:28 | WG1024797 |
| 2,2-Dichloropropane | U | | 0.0659 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Di-isopropyl ether | U | | 0.0586 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Ethylbenzene | U | | 0.0702 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Hexachloro-1,3-butadiene | U | | 0.0808 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 2-Hexanone | U | | 0.324 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |
| n-Hexane | U | | 0.0685 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |
| Iodomethane | U | | 0.598 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |
| Isopropylbenzene | U | | 0.0574 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| p-Isopropyltoluene | U | | 0.0482 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 2-Butanone (MEK) | U | | 1.11 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |
| Methylene Chloride | U | | 0.236 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.444 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0501 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Naphthalene | U | | 0.236 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| n-Propylbenzene | U | | 0.0487 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Styrene | U | | 0.0553 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0624 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0863 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0863 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Tetrachloroethene | 27.0 | | 0.0652 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Toluene | U | | 0.103 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2,3-Trichlorobenzene | U | | 0.0723 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2,4-Trichlorobenzene | U | | 0.0917 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1,1-Trichloroethane | U | | 0.0676 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,1,2-Trichloroethane | U | | 0.0655 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Trichloroethene | 1.08 | | 0.0659 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Trichlorofluoromethane | U | | 0.0903 | 1.18 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2,3-Trichloropropane | U | | 0.175 | 0.591 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2,4-Trimethylbenzene | U | | 0.0499 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,2,3-Trimethylbenzene | U | | 0.0678 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| 1,3,5-Trimethylbenzene | U | | 0.0629 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Vinyl acetate | U | | 0.565 | 2.36 | 200 | 09/26/2017 20:28 | WG1024797 |
| Vinyl chloride | U | | 0.0688 | 0.236 | 200 | 09/26/2017 20:28 | WG1024797 |
| Xylenes, Total | U | | 0.165 | 0.709 | 200 | 09/26/2017 20:28 | WG1024797 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *09/26/2017 20:28* | WG1024797 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *09/26/2017 20:28* | WG1024797 |
| *(S) 4-Bromofluorobenzene* | *99.5* | | | *64.0-132* | | *09/26/2017 20:28* | WG1024797 |

**Sample Narrative:**

L938873-01 WG1024797: Target compounds too high to re-analyze at a lower dilution.

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.6 | | 1 | 09/27/2017 15:46 | WG1025104 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 2.28 | 11.4 | 200 | 09/26/2017 20:54 | WG1024797 |
| Acrylonitrile | U | | 0.409 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |
| Benzene | U | | 0.0617 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Bromobenzene | U | | 0.0649 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Bromodichloromethane | U | | 0.0580 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Bromochloromethane | U | | 0.0891 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| Bromoform | U | | 0.0968 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Bromomethane | U UJ | J0 | 0.306 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| n-Butylbenzene | U | | 0.0589 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| sec-Butylbenzene | U | | 0.0459 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| tert-Butylbenzene | U | | 0.0470 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Carbon disulfide | U | | 0.0505 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Carbon tetrachloride | U | | 0.0749 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Chlorobenzene | U | | 0.0484 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Chlorodibromomethane | U | | 0.0852 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Chloroethane | U | | 0.216 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| Chloroform | U | | 0.0523 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| Chloromethane | U | | 0.0856 | 0.571 | 200 | 09/26/2017 20:54 | WG1024797 |
| 2-Chlorotoluene | U | | 0.0687 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 4-Chlorotoluene | U | | 0.0548 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.240 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2-Dibromoethane | U | | 0.0783 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Dibromomethane | U | | 0.0872 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2-Dichlorobenzene | U | | 0.0697 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,3-Dichlorobenzene | U | | 0.0546 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,4-Dichlorobenzene | U | | 0.0516 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Dichlorodifluoromethane | U | | 0.163 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1-Dichloroethane | U | | 0.0455 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2-Dichloroethane | U | | 0.0605 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1-Dichloroethene | U | | 0.0692 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| cis-1,2-Dichloroethene | 0.713 | | 0.0537 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| trans-1,2-Dichloroethene | U | | 0.0603 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2-Dichloropropane | U | | 0.0818 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1-Dichloropropene | U | | 0.0724 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,3-Dichloropropane | U | | 0.0473 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| cis-1,3-Dichloropropene | U | | 0.0598 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| trans-1,3-Dichloropropene | U | | 0.0610 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| trans-1,4-Dichloro-2-butene | U | | 0.178 | 0.571 | 200 | 09/26/2017 20:54 | WG1024797 |
| 2,2-Dichloropropane | U | | 0.0637 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Di-isopropyl ether | U | | 0.0566 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Ethylbenzene | U | | 0.0678 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Hexachloro-1,3-butadiene | U | | 0.0781 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 2-Hexanone | U | | 0.313 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |
| n-Hexane | U | | 0.0662 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |
| Iodomethane | U | | 0.578 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |
| Isopropylbenzene | U | | 0.0555 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| p-Isopropyltoluene | U | | 0.0466 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 2-Butanone (MEK) | U | | 1.07 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |
| Methylene Chloride | U | | 0.228 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| 4-Methyl-2-pentanone (MIBK) | U UJ | J0 | 0.429 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.0484 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Naphthalene | U | | 0.228 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| n-Propylbenzene | U | | 0.0470 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Styrene | U | | 0.0534 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1,1,2-Tetrachloroethane | U | | 0.0603 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1,2,2-Tetrachloroethane | U | | 0.0834 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.0834 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Tetrachloroethene | 38.0 | | 0.315 | 1.14 | 1000 | 10/02/2017 19:03 | WG1024797 |
| Toluene | U | | 0.0991 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2,3-Trichlorobenzene | U | | 0.0699 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2,4-Trichlorobenzene | U | | 0.0886 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1,1-Trichloroethane | U | | 0.0653 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,1,2-Trichloroethane | U | | 0.0633 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Trichloroethene | 0.453 | | 0.0637 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Trichlorofluoromethane | U | | 0.0872 | 1.14 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2,3-Trichloropropane | U | | 0.169 | 0.571 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2,4-Trimethylbenzene | U | | 0.0482 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,2,3-Trimethylbenzene | U | | 0.0655 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| 1,3,5-Trimethylbenzene | U | | 0.0608 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Vinyl acetate | U | | 0.546 | 2.28 | 200 | 09/26/2017 20:54 | WG1024797 |
| Vinyl chloride | U | | 0.0665 | 0.228 | 200 | 09/26/2017 20:54 | WG1024797 |
| Xylenes, Total | U | | 0.160 | 0.685 | 200 | 09/26/2017 20:54 | WG1024797 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *10/02/2017 19:03* | WG1024797 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *09/26/2017 20:54* | WG1024797 |
| *(S) Dibromofluoromethane* | *110* | | | *74.0-131* | | *10/02/2017 19:03* | WG1024797 |
| *(S) Dibromofluoromethane* | *112* | | | *74.0-131* | | *09/26/2017 20:54* | WG1024797 |
| *(S) 4-Bromofluorobenzene* | *98.9* | | | *64.0-132* | | *09/26/2017 20:54* | WG1024797 |
| *(S) 4-Bromofluorobenzene* | *98.6* | | | *64.0-132* | | *10/02/2017 19:03* | WG1024797 |

**Sample Narrative:**

L938873-02 WG1024797: Target compounds too high to re-analyze at a lower dilution.

JC 10/18/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.8 | | 1 | 09/27/2017 15:46 | WG1025104 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 275 | 1380 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Acrylonitrile | U | UJ J0 | 49.3 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Benzene | U | | 7.43 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Bromobenzene | U | | 7.82 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Bromodichloromethane | U | | 6.99 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Bromochloromethane | U | | 10.7 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Bromoform | U | | 11.7 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Bromomethane | U | | 36.9 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| n-Butylbenzene | U | | 7.10 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| sec-Butylbenzene | U | | 5.53 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| tert-Butylbenzene | U | | 5.67 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Carbon disulfide | U | | 6.08 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Carbon tetrachloride | U | | 9.03 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Chlorobenzene | U | | 5.84 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Chlorodibromomethane | U | | 10.3 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Chloroethane | U | | 26.0 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Chloroform | U | | 6.30 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Chloromethane | U | | 10.3 | 68.8 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 2-Chlorotoluene | U | | 8.28 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 4-Chlorotoluene | U | | 6.61 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2-Dibromo-3-Chloropropane | U | UJ J0 | 28.8 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2-Dibromoethane | U | | 9.45 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Dibromomethane | U | | 10.5 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2-Dichlorobenzene | U | | 8.39 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,3-Dichlorobenzene | U | | 6.58 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,4-Dichlorobenzene | U | | 6.22 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Dichlorodifluoromethane | U | | 19.6 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1-Dichloroethane | U | | 5.48 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2-Dichloroethane | U | | 7.29 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1-Dichloroethene | U | | 8.35 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| cis-1,2-Dichloroethene | U | | 6.47 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| trans-1,2-Dichloroethene | U | | 7.27 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2-Dichloropropane | U | | 9.85 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1-Dichloropropene | U | | 8.72 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,3-Dichloropropane | U | | 5.70 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| cis-1,3-Dichloropropene | U | | 7.21 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| trans-1,3-Dichloropropene | U | | 7.35 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| trans-1,4-Dichloro-2-butene | U | | 21.4 | 68.8 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 2,2-Dichloropropane | U | | 7.68 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Di-isopropyl ether | U | | 6.83 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Ethylbenzene | U | | 8.17 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Hexachloro-1,3-butadiene | U | | 9.41 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 2-Hexanone | U | | 37.7 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |
| n-Hexane | U | | 7.98 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Iodomethane | U | | 69.6 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Isopropylbenzene | U | | 6.69 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| p-Isopropyltoluene | U | | 5.61 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 2-Butanone (MEK) | U | | 129 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Methylene Chloride | U | | 27.5 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 4-Methyl-2-pentanone (MIBK) | U | UJ J0 | 51.7 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |

JC 10/18/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 5.84 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Naphthalene | U | | 27.5 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| n-Propylbenzene | U | | 5.67 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Styrene | U | | 6.44 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1,1,2-Tetrachloroethane | U | | 7.27 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1,2,2-Tetrachloroethane | U | | 10.0 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1,2-Trichlorotrifluoroethane | U | | 10.0 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Tetrachloroethene | 5560 | | 30.4 | 110 | 100000 | 10/03/2017 15:13 | WG1024797 |
| Toluene | U | | 11.9 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2,3-Trichlorobenzene | U | | 8.42 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2,4-Trichlorobenzene | U | | 10.7 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1,1-Trichloroethane | U | | 7.87 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,1,2-Trichloroethane | U | | 7.62 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Trichloroethene | U | | 7.68 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Trichlorofluoromethane | U | | 10.5 | 138 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2,3-Trichloropropane | U | | 20.4 | 68.8 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2,4-Trimethylbenzene | U | | 5.81 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,2,3-Trimethylbenzene | U | | 7.90 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| 1,3,5-Trimethylbenzene | U | | 7.32 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Vinyl acetate | U | | 65.8 | 275 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Vinyl chloride | U | | 8.01 | 27.5 | 25000 | 10/02/2017 19:29 | WG1024797 |
| Xylenes, Total | U | | 19.2 | 82.6 | 25000 | 10/02/2017 19:29 | WG1024797 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *10/03/2017 15:13* | WG1024797 |
| *(S) Toluene-d8* | *102* | | | *80.0-120* | | *10/02/2017 19:29* | WG1024797 |
| *(S) Dibromofluoromethane* | *91.8* | | | *74.0-131* | | *10/03/2017 15:13* | WG1024797 |
| *(S) Dibromofluoromethane* | *111* | | | *74.0-131* | | *10/02/2017 19:29* | WG1024797 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *64.0-132* | | *10/02/2017 19:29* | WG1024797 |
| *(S) 4-Bromofluorobenzene* | *98.2* | | | *64.0-132* | | *10/03/2017 15:13* | WG1024797 |

**Sample Narrative:**

L938873-03 WG1024797: Target compounds too high to re-analyze at a lower dilution.

JC 10/18/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 87.8 | | 1 | 09/27/2017 15:46 | WG1025104 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0114 | 0.0569 | 1 | 09/27/2017 01:27 | WG1024909 |
| Acrylonitrile | U | | 0.00204 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Benzene | U | | 0.000308 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Bromobenzene | U | | 0.000323 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Bromodichloromethane | U | | 0.000289 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Bromochloromethane | U | | 0.000444 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| Bromoform | U | | 0.000483 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Bromomethane | U | | 0.00153 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| n-Butylbenzene | U | | 0.000294 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| sec-Butylbenzene | U | | 0.000229 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| tert-Butylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Carbon disulfide | U | | 0.000252 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Carbon tetrachloride | U | | 0.000374 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Chlorobenzene | U | | 0.000241 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Chlorodibromomethane | U | | 0.000425 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Chloroethane | 0.00151 | J J | 0.00108 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| Chloroform | U | | 0.000261 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| Chloromethane | U | | 0.000427 | 0.00285 | 1 | 09/27/2017 01:27 | WG1024909 |
| 2-Chlorotoluene | U | | 0.000343 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 4-Chlorotoluene | U | | 0.000273 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00120 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2-Dibromoethane | U | | 0.000391 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Dibromomethane | U | | 0.000435 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2-Dichlorobenzene | U | | 0.000347 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,3-Dichlorobenzene | U | | 0.000272 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,4-Dichlorobenzene | U | | 0.000257 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Dichlorodifluoromethane | U | | 0.000812 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1-Dichloroethane | U | | 0.000227 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2-Dichloroethane | U | | 0.000302 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1-Dichloroethene | U | | 0.000345 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| cis-1,2-Dichloroethene | 0.0914 | | 0.000268 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| trans-1,2-Dichloroethene | 0.000883 | J J | 0.000301 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2-Dichloropropane | U | | 0.000408 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1-Dichloropropene | U | | 0.000361 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,3-Dichloropropane | U | | 0.000236 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| cis-1,3-Dichloropropene | U | | 0.000298 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| trans-1,3-Dichloropropene | U | | 0.000304 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| trans-1,4-Dichloro-2-butene | U | | 0.000886 | 0.00285 | 1 | 09/27/2017 01:27 | WG1024909 |
| 2,2-Dichloropropane | U | | 0.000318 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Di-isopropyl ether | U | | 0.000282 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Ethylbenzene | U | | 0.000338 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Hexachloro-1,3-butadiene | U | | 0.000390 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 2-Hexanone | U | | 0.00156 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |
| n-Hexane | U | | 0.000330 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Iodomethane | U | | 0.00288 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Isopropylbenzene | U | | 0.000277 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| p-Isopropyltoluene | U | | 0.000232 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 2-Butanone (MEK) | U | | 0.00533 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Methylene Chloride | U | | 0.00114 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00214 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000241 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Naphthalene | U | | 0.00114 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| n-Propylbenzene | U | | 0.000235 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Styrene | U | | 0.000267 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000301 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000416 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000416 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Tetrachloroethene | 4.68 | | 0.0314 | 0.114 | 100 | 09/28/2017 20:38 | WG1024909 |
| Toluene | U | | 0.000494 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2,3-Trichlorobenzene | U | | 0.000349 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2,4-Trichlorobenzene | U | | 0.000442 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1,1-Trichloroethane | U | | 0.000326 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,1,2-Trichloroethane | U | | 0.000315 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Trichloroethene | 0.0228 | | 0.000318 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Trichlorofluoromethane | U | | 0.000435 | 0.00569 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2,3-Trichloropropane | U | | 0.000844 | 0.00285 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,2,4-Trimethylbenzene | U | | 0.0240 | 0.114 | 100 | 09/28/2017 20:38 | WG1024909 |
| 1,2,3-Trimethylbenzene | U | | 0.000327 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| 1,3,5-Trimethylbenzene | U | | 0.000303 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Vinyl acetate | U | | 0.00272 | 0.0114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Vinyl chloride | 0.00775 | | 0.000331 | 0.00114 | 1 | 09/27/2017 01:27 | WG1024909 |
| Xylenes, Total | U | | 0.000795 | 0.00342 | 1 | 09/27/2017 01:27 | WG1024909 |
| *(S) Toluene-d8* | *107* | | | *80.0-120* | | *09/28/2017 20:38* | WG1024909 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/27/2017 01:27* | WG1024909 |
| *(S) Dibromofluoromethane* | *96.5* | | | *74.0-131* | | *09/28/2017 20:38* | WG1024909 |
| *(S) Dibromofluoromethane* | *104* | | | *74.0-131* | | *09/27/2017 01:27* | WG1024909 |
| *(S) 4-Bromofluorobenzene* | *113* | | | *64.0-132* | | *09/27/2017 01:27* | WG1024909 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *64.0-132* | | *09/28/2017 20:38* | WG1024909 |

**Sample Narrative:**

L938873-04 WG1024909: Target compounds too high to re-analyze at a lower dilution.

JC 10/18/17

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.1 | | 1 | 09/27/2017 15:46 | WG1025104 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | 0.0138 J | J | 0.0116 | 0.0581 | 1 | 09/27/2017 01:47 | WG1024909 |
| Acrylonitrile | U | | 0.00208 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Benzene | U | | 0.000314 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Bromobenzene | U | | 0.000330 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Bromodichloromethane | U | | 0.000295 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Bromochloromethane | U | | 0.000453 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| Bromoform | U | | 0.000492 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Bromomethane | U | | 0.00156 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| n-Butylbenzene | U | | 0.000300 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| sec-Butylbenzene | U | | 0.000233 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| tert-Butylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Carbon disulfide | 0.00113 J | J | 0.000257 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Carbon tetrachloride | U | | 0.000381 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Chlorobenzene | U | | 0.000246 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Chlorodibromomethane | U | | 0.000433 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Chloroethane | U | | 0.00110 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| Chloroform | U | | 0.000266 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| Chloromethane | U | | 0.000435 | 0.00290 | 1 | 09/27/2017 01:47 | WG1024909 |
| 2-Chlorotoluene | U | | 0.000349 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 4-Chlorotoluene | U | | 0.000279 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00122 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2-Dibromoethane | U | | 0.000398 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Dibromomethane | U | | 0.000444 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2-Dichlorobenzene | U | | 0.000354 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,3-Dichlorobenzene | U | | 0.000278 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,4-Dichlorobenzene | U | | 0.000262 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Dichlorodifluoromethane | U | | 0.000828 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1-Dichloroethane | U | | 0.000231 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2-Dichloroethane | U | | 0.000308 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1-Dichloroethene | U | | 0.000352 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| cis-1,2-Dichloroethene | 0.00208 | | 0.000273 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| trans-1,2-Dichloroethene | U | | 0.000307 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2-Dichloropropane | U | | 0.000416 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1-Dichloropropene | U | | 0.000368 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,3-Dichloropropane | U | | 0.000240 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| cis-1,3-Dichloropropene | U | | 0.000304 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| trans-1,3-Dichloropropene | U | | 0.000310 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| trans-1,4-Dichloro-2-butene | U | | 0.000903 | 0.00290 | 1 | 09/27/2017 01:47 | WG1024909 |
| 2,2-Dichloropropane | U | | 0.000324 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Di-isopropyl ether | U | | 0.000288 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Ethylbenzene | U | | 0.000345 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Hexachloro-1,3-butadiene | U | | 0.000397 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 2-Hexanone | U | | 0.00159 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |
| n-Hexane | U | | 0.000337 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Iodomethane | U | | 0.00294 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Isopropylbenzene | U | | 0.000282 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| p-Isopropyltoluene | U | | 0.000237 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 2-Butanone (MEK) | U | | 0.00543 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Methylene Chloride | U | | 0.00116 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00218 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000246 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Naphthalene | U | | 0.00116 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| n-Propylbenzene | U | | 0.000239 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Styrene | U | | 0.000272 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000307 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000424 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000424 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Tetrachloroethene | 2.17 | J | 0.00801 | 0.0290 | 25 | 09/28/2017 20:58 | WG1024909 |
| Toluene | U | | 0.000504 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2,3-Trichlorobenzene | U | | 0.000355 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2,4-Trichlorobenzene | U | | 0.000451 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1,1-Trichloroethane | U | | 0.000332 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,1,2-Trichloroethane | U | | 0.000322 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Trichloroethene | 0.00106 | J | 0.000324 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Trichlorofluoromethane | U | | 0.000444 | 0.00581 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2,3-Trichloropropane | U | | 0.000860 | 0.00290 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2,4-Trimethylbenzene | U | | 0.000245 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,2,3-Trimethylbenzene | U | | 0.000333 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| 1,3,5-Trimethylbenzene | U | | 0.000309 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Vinyl acetate | U | | 0.00278 | 0.0116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Vinyl chloride | U | | 0.000338 | 0.00116 | 1 | 09/27/2017 01:47 | WG1024909 |
| Xylenes, Total | U | | 0.000810 | 0.00348 | 1 | 09/27/2017 01:47 | WG1024909 |
| *(S) Toluene-d8* | *110* | | | *80.0-120* | | *09/27/2017 01:47* | WG1024909 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/28/2017 20:58* | WG1024909 |
| *(S) Dibromofluoromethane* | *103* | | | *74.0-131* | | *09/27/2017 01:47* | WG1024909 |
| *(S) Dibromofluoromethane* | *94.2* | | | *74.0-131* | | *09/28/2017 20:58* | WG1024909 |
| *(S) 4-Bromofluorobenzene* | *114* | | | *64.0-132* | | *09/27/2017 01:47* | WG1024909 |
| *(S) 4-Bromofluorobenzene* | *99.9* | | | *64.0-132* | | *09/28/2017 20:58* | WG1024909 |

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## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 93.0 | | 1 | 09/27/2017 15:46 | WG1025104 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0107 | 0.0537 | 1 | 09/27/2017 02:06 | WG1024909 |
| Acrylonitrile | U | | 0.00192 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Benzene | U | | 0.000290 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Bromobenzene | U | | 0.000305 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Bromodichloromethane | U | | 0.000273 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Bromochloromethane | U | | 0.000419 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| Bromoform | U | | 0.000456 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Bromomethane | U | | 0.00144 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| n-Butylbenzene | U | | 0.000277 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| sec-Butylbenzene | U | | 0.000216 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| tert-Butylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Carbon disulfide | 0.00100 J | J | 0.000238 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Carbon tetrachloride | U | | 0.000353 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Chlorobenzene | U | | 0.000228 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Chlorodibromomethane | U | | 0.000401 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Chloroethane | U | | 0.00102 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| Chloroform | U | | 0.000246 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| Chloromethane | U | | 0.000403 | 0.00269 | 1 | 09/27/2017 02:06 | WG1024909 |
| 2-Chlorotoluene | U | | 0.000323 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 4-Chlorotoluene | U | | 0.000258 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00113 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2-Dibromoethane | U | | 0.000369 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Dibromomethane | U | | 0.000411 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2-Dichlorobenzene | U | | 0.000328 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,3-Dichlorobenzene | U | | 0.000257 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,4-Dichlorobenzene | U | | 0.000243 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Dichlorodifluoromethane | U | | 0.000766 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1-Dichloroethane | U | | 0.000214 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2-Dichloroethane | U | | 0.000285 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1-Dichloroethene | U | | 0.000326 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| cis-1,2-Dichloroethene | 0.000728 J | J | 0.000253 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| trans-1,2-Dichloroethene | U | | 0.000284 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2-Dichloropropane | U | | 0.000385 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1-Dichloropropene | U | | 0.000341 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,3-Dichloropropane | U | | 0.000222 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| cis-1,3-Dichloropropene | U | | 0.000282 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| trans-1,3-Dichloropropene | U | | 0.000287 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| trans-1,4-Dichloro-2-butene | U | | 0.000836 | 0.00269 | 1 | 09/27/2017 02:06 | WG1024909 |
| 2,2-Dichloropropane | U | | 0.000300 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Di-isopropyl ether | U | | 0.000267 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Ethylbenzene | U | | 0.000319 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Hexachloro-1,3-butadiene | U | | 0.000368 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 2-Hexanone | U | | 0.00147 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |
| n-Hexane | U | | 0.000312 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Iodomethane | U | | 0.00272 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Isopropylbenzene | U | | 0.000261 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| p-Isopropyltoluene | U | | 0.000219 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 2-Butanone (MEK) | U | | 0.00503 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Methylene Chloride | U | | 0.00107 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00202 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | U | | 0.000228 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Naphthalene | U | | 0.00107 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| n-Propylbenzene | U | | 0.000221 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Styrene | U | | 0.000251 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000284 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000392 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000392 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Tetrachloroethene | 1.13 J | | 0.00742 | 0.0269 | 25 | 09/28/2017 21:18 | WG1024909 |
| Toluene | U | | 0.000466 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2,3-Trichlorobenzene | U | | 0.000329 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2,4-Trichlorobenzene | U | | 0.000417 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1,1-Trichloroethane | U | | 0.000307 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,1,2-Trichloroethane | U | | 0.000298 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Trichloroethene | 0.000520 J | J | 0.000300 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Trichlorofluoromethane | U | | 0.000411 | 0.00537 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2,3-Trichloropropane | U | | 0.000796 | 0.00269 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2,4-Trimethylbenzene | U | | 0.000227 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,2,3-Trimethylbenzene | U | | 0.000308 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| 1,3,5-Trimethylbenzene | U | | 0.000286 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Vinyl acetate | U | | 0.00257 | 0.0107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Vinyl chloride | U | | 0.000313 | 0.00107 | 1 | 09/27/2017 02:06 | WG1024909 |
| Xylenes, Total | U | | 0.000750 | 0.00322 | 1 | 09/27/2017 02:06 | WG1024909 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/27/2017 02:06* | WG1024909 |
| *(S) Toluene-d8* | *108* | | | *80.0-120* | | *09/28/2017 21:18* | WG1024909 |
| *(S) Dibromofluoromethane* | *107* | | | *74.0-131* | | *09/27/2017 02:06* | WG1024909 |
| *(S) Dibromofluoromethane* | *93.5* | | | *74.0-131* | | *09/28/2017 21:18* | WG1024909 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *64.0-132* | | *09/28/2017 21:18* | WG1024909 |
| *(S) 4-Bromofluorobenzene* | *113* | | | *64.0-132* | | *09/27/2017 02:06* | WG1024909 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 2.11 U | B J J4 | 1.05 | 25.0 | 1 | 09/27/2017 19:51 | WG1025164 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Chloromethane | 0.754 J | J | 0.153 | 1.25 | 1 | 09/27/2017 19:51 | WG1025164 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1-Dichloroethene | 0.226 J | J | 0.188 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| cis-1,2-Dichloroethene | 0.477 J | J | 0.0933 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.257 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/27/2017 19:51 | WG1025164 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Trichloroethene | 0.450 J | J | 0.153 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/27/2017 19:51 | WG1025164 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/27/2017 19:51 | WG1025164 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/27/2017 19:51 | WG1025164 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/27/2017 19:51* | WG1025164 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *09/27/2017 19:51* | WG1025164 |
| *(S) 4-Bromofluorobenzene* | *89.4* | | | *80.0-120* | | *09/27/2017 19:51* | WG1025164 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|---|
| | ug/l | | | ug/l | ug/l | | date / time | |
| Acetone | 5.64 | U | B J J4 | 5.25 | 125 | 5 | 09/27/2017 20:13 | WG1025164 |
| Acrylonitrile | U | | | 4.36 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| Benzene | U | | | 0.448 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Bromobenzene | U | | | 0.665 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Bromodichloromethane | U | | | 0.400 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Bromochloromethane | U | | | 0.725 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Bromoform | U | | | 0.930 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Bromomethane | U | | | 0.785 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| n-Butylbenzene | U | | | 0.715 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| sec-Butylbenzene | U | | | 0.670 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| tert-Butylbenzene | U | | | 0.915 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Carbon disulfide | U | | | 0.505 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Carbon tetrachloride | U | | | 0.795 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Chlorobenzene | U | | | 0.700 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Chlorodibromomethane | U | | | 0.640 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Chloroethane | U | | | 0.705 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| Chloroform | U | | | 0.430 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Chloromethane | U | | | 0.765 | 6.25 | 5 | 09/27/2017 20:13 | WG1025164 |
| 2-Chlorotoluene | U | | | 0.555 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 4-Chlorotoluene | U | | | 0.486 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2-Dibromo-3-Chloropropane | U | | | 1.62 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2-Dibromoethane | U | | | 0.965 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Dibromomethane | U | | | 0.585 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2-Dichlorobenzene | U | | | 0.505 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,3-Dichlorobenzene | U | | | 0.650 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,4-Dichlorobenzene | U | | | 0.605 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Dichlorodifluoromethane | U | | | 0.635 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1-Dichloroethane | U | | | 0.570 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2-Dichloroethane | U | | | 0.540 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1-Dichloroethene | U | | | 0.940 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| cis-1,2-Dichloroethene | 86.2 | | | 0.466 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| trans-1,2-Dichloroethene | U | | | 0.760 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2-Dichloropropane | U | | | 0.950 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1-Dichloropropene | U | | | 0.640 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,3-Dichloropropane | U | | | 0.735 | 5.00 | 5 | 09/27/2017 20:13 | WG1025164 |
| cis-1,3-Dichloropropene | U | | | 0.488 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| trans-1,3-Dichloropropene | U | | | 1.11 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| trans-1,4-Dichloro-2-butene | U | UJ | J0 | 1.28 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| 2,2-Dichloropropane | U | | | 0.464 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Di-isopropyl ether | U | | | 0.462 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Ethylbenzene | U | | | 0.790 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Hexachloro-1,3-butadiene | U | | | 0.785 | 5.00 | 5 | 09/27/2017 20:13 | WG1025164 |
| 2-Hexanone | U | | | 3.78 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| n-Hexane | U | | | 1.52 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| Iodomethane | U | | | 1.88 | 50.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| Isopropylbenzene | U | | | 0.630 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| p-Isopropyltoluene | U | | | 0.690 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 2-Butanone (MEK) | U | | | 6.40 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| Methylene Chloride | U | | | 5.35 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| 4-Methyl-2-pentanone (MIBK) | U | | | 4.12 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| Methyl tert-butyl ether | U | | | 0.510 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Naphthalene | U | | | 0.870 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| n-Propylbenzene | U | | | 0.810 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Styrene | U | | | 0.585 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1,1,2-Tetrachloroethane | U | | | 0.600 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1,2,2-Tetrachloroethane | U | | | 0.650 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.820 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Tetrachloroethene | U | | 0.995 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Toluene | U | | 2.06 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2,3-Trichlorobenzene | U | | 0.820 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2,4-Trichlorobenzene | U | | 1.78 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1,1-Trichloroethane | U | | 0.470 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,1,2-Trichloroethane | U | | 0.930 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Trichloroethene | U | | 0.765 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Trichlorofluoromethane | U | | 0.650 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2,3-Trichloropropane | U | | 1.24 | 12.5 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2,4-Trimethylbenzene | U | | 0.615 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,2,3-Trimethylbenzene | U | | 0.370 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| 1,3,5-Trimethylbenzene | U | | 0.620 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Vinyl acetate | U | | 3.22 | 25.0 | 5 | 09/27/2017 20:13 | WG1025164 |
| Vinyl chloride | 229 | | 0.590 | 2.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| Xylenes, Total | U | | 1.58 | 7.50 | 5 | 09/27/2017 20:13 | WG1025164 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/27/2017 20:13* | WG1025164 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/27/2017 20:13* | WG1025164 |
| *(S) 4-Bromofluorobenzene* | *90.5* | | | *80.0-120* | | *09/27/2017 20:13* | WG1025164 |

Sample Narrative:

L938873-08 WG1025164: Target compounds too high to re-analyze at a lower dilution.

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 4.56 U | B J J4 | 1.05 | 25.0 | 1 | 09/27/2017 20:35 | WG1025164 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Chloromethane | 2.07 | | 0.153 | 1.25 | 1 | 09/27/2017 20:35 | WG1025164 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| cis-1,2-Dichloroethene | 0.345 J | J | 0.0933 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.257 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/27/2017 20:35 | WG1025164 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Toluene | 0.941 | | 0.412 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/27/2017 20:35 | WG1025164 |
| Vinyl chloride | 0.457 | J | 0.118 | 0.500 | 1 | 09/27/2017 20:35 | WG1025164 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/27/2017 20:35 | WG1025164 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/27/2017 20:35* | WG1025164 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/27/2017 20:35* | WG1025164 |
| *(S) 4-Bromofluorobenzene* | *88.9* | | | *80.0-120* | | *09/27/2017 20:35* | WG1025164 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 3.74 U | B J J4 | 1.05 | 25.0 | 1 | 09/27/2017 20:57 | WG1025164 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Chloromethane | 2.13 | | 0.153 | 1.25 | 1 | 09/27/2017 20:57 | WG1025164 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1-Dichloroethene | 0.211 J | J | 0.188 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| cis-1,2-Dichloroethene | 0.523 | | 0.0933 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 | 0.257 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/27/2017 20:57 | WG1025164 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Trichloroethene | 0.456 J | J | 0.153 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/27/2017 20:57 | WG1025164 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/27/2017 20:57 | WG1025164 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/27/2017 20:57 | WG1025164 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/27/2017 20:57* | WG1025164 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/27/2017 20:57* | WG1025164 |
| *(S) 4-Bromofluorobenzene* | *89.3* | | | *80.0-120* | | *09/27/2017 20:57* | WG1025164 |

JC 10/18/17

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch | |
|---|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | | |
| Acetone | U | J4 | 1.05 | 25.0 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 | |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/27/2017 12:53 | WG1025164 | |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| trans-1,4-Dichloro-2-butene | U | UJ J0 | 0.257 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 | |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 | |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 | JC 10/18/17 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Toluene | U | | 0.412 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/27/2017 12:53 | WG1025164 |
| Vinyl chloride | U | | 0.118 | 0.500 | 1 | 09/27/2017 12:53 | WG1025164 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/27/2017 12:53 | WG1025164 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/27/2017 12:53* | WG1025164 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *09/27/2017 12:53* | WG1025164 |
| *(S) 4-Bromofluorobenzene* | *90.9* | | | *80.0-120* | | *09/27/2017 12:53* | WG1025164 |

JC 10/18/17

# ANALYTICAL REPORT

October 05, 2017

## PES Environmental, Inc.- WA

| | |
|---|---|
| Sample Delivery Group: | L939416 |
| Samples Received: | 09/27/2017 |
| Project Number: | 1413.001.02.602 |
| Description: | MVSC |
| Site: | AMERICAM LINEN |
| Report To: | Bill Haldeman<br>1215 Fourth Ave., Suite 1350<br>Seattle, WA 98161 |

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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## MW-139-092517 L939416-01 GW

Collected by: Karsten Springstead | Collected date/time: 09/25/17 12:00 | Received date/time: 09/27/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1026503 | 1 | 10/01/17 17:01 | 10/01/17 17:01 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1025567 | 1 | 09/28/17 20:28 | 09/28/17 20:28 | BMB |

## MW-132-092517 L939416-02 GW

Collected by: Karsten Springstead | Collected date/time: 09/25/17 13:00 | Received date/time: 09/27/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1026503 | 1 | 10/05/17 00:36 | 10/05/17 00:36 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1025567 | 5 | 10/03/17 16:10 | 10/03/17 16:10 | ACG |

## MW-135-092517 L939416-03 GW

Collected by: Karsten Springstead | Collected date/time: 09/25/17 14:00 | Received date/time: 09/27/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1026503 | 100 | 10/01/17 17:49 | 10/01/17 17:49 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1025567 | 100 | 09/28/17 21:12 | 09/28/17 21:12 | BMB |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1025567 | 1000 | 10/03/17 16:32 | 10/03/17 16:32 | ACG |

## MW-133-092517 L939416-04 GW

Collected by: Karsten Springstead | Collected date/time: 09/25/17 15:00 | Received date/time: 09/27/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1026503 | 1 | 10/05/17 00:58 | 10/05/17 00:58 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1025567 | 1 | 10/03/17 16:55 | 10/03/17 16:55 | ACG |

## MW-136-092517 L939416-05 GW

Collected by: Karsten Springstead | Collected date/time: 09/25/17 16:50 | Received date/time: 09/27/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1026503 | 1 | 10/05/17 01:21 | 10/05/17 01:21 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1025567 | 1 | 10/03/17 17:16 | 10/03/17 17:16 | ACG |

## MW-137-092517 L939416-06 GW

Collected by: Karsten Springstead | Collected date/time: 09/25/17 17:45 | Received date/time: 09/27/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1026503 | 1 | 10/05/17 01:43 | 10/05/17 01:43 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1025567 | 1 | 10/03/17 17:38 | 10/03/17 17:38 | ACG |

## EQ-092517 L939416-07 GW

Collected by: Karsten Springstead | Collected date/time: 09/25/17 18:15 | Received date/time: 09/27/17 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|---|---|---|---|---|---|
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG1026503 | 1 | 10/05/17 02:05 | 10/05/17 02:05 | JAH |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG1025567 | 1 | 10/03/17 17:59 | 10/03/17 17:59 | ACG |

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 62.2 | B J | 31.6 | 100 | 1 | 10/01/2017 17:01 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.7* | | | *77.0-122* | | *10/01/2017 17:01* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 2.87 | J J4 | 1.05 | 25.0 | 1 | 09/28/2017 20:28 | WG1025567 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Carbon disulfide | 1.18 | | 0.101 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| Chloroform | 1.33 | | 0.0860 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/28/2017 20:28 | WG1025567 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| cis-1,2-Dichloroethene | 1.42 | | 0.0933 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.257 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/28/2017 20:28 | WG1025567 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | 1.10 | J | 1.07 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Toluene | 0.516 | | 0.412 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| Vinyl chloride | 0.246 | J J4 | 0.118 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/28/2017 20:28* | WG1025567 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/28/2017 20:28* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *88.5* | | | *80.0-120* | | *09/28/2017 20:28* | WG1025567 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 95.9 | B J | 31.6 | 100 | 1 | 10/05/2017 00:36 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.6* | | | *77.0-122* | | *10/05/2017 00:36* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 5.91 | J J0 J4 | 5.25 | 125 | 5 | 10/03/2017 16:10 | WG1025567 |
| Acrylonitrile | U | | 4.36 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| Benzene | U | | 0.448 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Bromobenzene | U | | 0.665 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Bromodichloromethane | U | | 0.400 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Bromochloromethane | U | | 0.725 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Bromoform | U | | 0.930 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Bromomethane | U | | 0.785 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| n-Butylbenzene | U | | 0.715 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| sec-Butylbenzene | U | | 0.670 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| tert-Butylbenzene | U | | 0.915 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Carbon disulfide | U | | 0.505 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Carbon tetrachloride | U | | 0.795 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Chlorobenzene | U | | 0.700 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Chlorodibromomethane | U | | 0.640 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Chloroethane | U | | 0.705 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| Chloroform | U | | 0.430 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Chloromethane | U | | 0.765 | 6.25 | 5 | 10/03/2017 16:10 | WG1025567 |
| 2-Chlorotoluene | U | | 0.555 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 4-Chlorotoluene | U | | 0.486 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.62 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2-Dibromoethane | U | | 0.965 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Dibromomethane | U | | 0.585 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2-Dichlorobenzene | U | | 0.505 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,3-Dichlorobenzene | U | | 0.650 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,4-Dichlorobenzene | U | | 0.605 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Dichlorodifluoromethane | U | | 0.635 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1-Dichloroethane | U | | 0.570 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2-Dichloroethane | U | | 0.540 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1-Dichloroethene | U | | 0.940 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| cis-1,2-Dichloroethene | 196 | | 0.466 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| trans-1,2-Dichloroethene | U | | 0.760 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2-Dichloropropane | U | | 0.950 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1-Dichloropropene | U | | 0.640 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,3-Dichloropropane | U | | 0.735 | 5.00 | 5 | 10/03/2017 16:10 | WG1025567 |
| cis-1,3-Dichloropropene | U | | 0.488 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| trans-1,3-Dichloropropene | U | | 1.11 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 1.28 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| 2,2-Dichloropropane | U | | 0.464 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Di-isopropyl ether | U | | 0.462 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Ethylbenzene | U | | 0.790 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | 0.785 | 5.00 | 5 | 10/03/2017 16:10 | WG1025567 |
| 2-Hexanone | U | | 3.78 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| n-Hexane | U | | 1.52 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| Iodomethane | U | | 1.88 | 50.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| Isopropylbenzene | U | | 0.630 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| p-Isopropyltoluene | U | | 0.690 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 2-Butanone (MEK) | U | | 6.40 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 5.35 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 4.12 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| Methyl tert-butyl ether | U | | 0.510 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Naphthalene | U | | 0.870 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| n-Propylbenzene | U | | 0.810 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Styrene | U | | 0.585 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 0.600 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 0.650 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.820 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Tetrachloroethene | U | | 0.995 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Toluene | U | | 2.06 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 0.820 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 1.78 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 0.470 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 0.930 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Trichloroethene | 1.95 | J | 0.765 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Trichlorofluoromethane | U | | 0.650 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 1.24 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 0.615 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 0.370 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 0.620 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Vinyl acetate | U | | 3.22 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| Vinyl chloride | 1.76 | J J4 | 0.590 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Xylenes, Total | U | | 1.58 | 7.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *10/03/2017 16:10* | WG1025567 |
| *(S) Dibromofluoromethane* | *103* | | | *76.0-123* | | *10/03/2017 16:10* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *91.8* | | | *80.0-120* | | *10/03/2017 16:10* | WG1025567 |

Sample Narrative:

L939416-02 WG1025567: Non-target compounds too high to run at a lower dilution.

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 10900 | B | 3160 | 10000 | 100 | 10/01/2017 17:49 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.5* | | | *77.0-122* | | *10/01/2017 17:49* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | J4 | 105 | 2500 | 100 | 09/28/2017 21:12 | WG1025567 |
| Acrylonitrile | U | | 87.3 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |
| Benzene | U | | 8.96 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Bromobenzene | U | | 13.3 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Bromodichloromethane | U | | 8.00 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Bromochloromethane | U | | 14.5 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Bromoform | U | | 18.6 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Bromomethane | U | | 15.7 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| n-Butylbenzene | U | | 14.3 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| sec-Butylbenzene | U | | 13.4 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| tert-Butylbenzene | U | | 18.3 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Carbon disulfide | U | | 10.1 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Carbon tetrachloride | U | | 15.9 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Chlorobenzene | U | | 14.0 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Chlorodibromomethane | U | | 12.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Chloroethane | U | | 14.1 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| Chloroform | U | | 8.60 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Chloromethane | U | | 15.3 | 125 | 100 | 09/28/2017 21:12 | WG1025567 |
| 2-Chlorotoluene | U | | 11.1 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 4-Chlorotoluene | U | | 9.72 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | 32.5 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2-Dibromoethane | U | | 19.3 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Dibromomethane | U | | 11.7 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2-Dichlorobenzene | U | | 10.1 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,3-Dichlorobenzene | U | | 13.0 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,4-Dichlorobenzene | U | | 12.1 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Dichlorodifluoromethane | U | | 12.7 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1-Dichloroethane | U | | 11.4 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2-Dichloroethane | U | | 10.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1-Dichloroethene | 87.2 | | 18.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| cis-1,2-Dichloroethene | 16100 | | 93.3 | 500 | 1000 | 10/03/2017 16:32 | WG1025567 |
| trans-1,2-Dichloroethene | U | | 15.2 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2-Dichloropropane | U | | 19.0 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1-Dichloropropene | U | | 12.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,3-Dichloropropane | U | | 14.7 | 100 | 100 | 09/28/2017 21:12 | WG1025567 |
| cis-1,3-Dichloropropene | U | | 9.76 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| trans-1,3-Dichloropropene | U | | 22.2 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 25.7 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |
| 2,2-Dichloropropane | U | | 9.29 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Di-isopropyl ether | U | | 9.24 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Ethylbenzene | U | | 15.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | 15.7 | 100 | 100 | 09/28/2017 21:12 | WG1025567 |
| 2-Hexanone | U | | 75.7 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |
| n-Hexane | U | | 30.5 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |
| Iodomethane | U | | 37.7 | 1000 | 100 | 09/28/2017 21:12 | WG1025567 |
| Isopropylbenzene | U | | 12.6 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| p-Isopropyltoluene | U | | 13.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 2-Butanone (MEK) | U | | 128 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 107 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 82.3 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |
| Methyl tert-butyl ether | U | | 10.2 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Naphthalene | U | | 17.4 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| n-Propylbenzene | U | | 16.2 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Styrene | U | | 11.7 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 12.0 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 13.0 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 16.4 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Tetrachloroethene | 10400 | | 19.9 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Toluene | U | | 41.2 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 16.4 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 35.5 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 9.40 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 18.6 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Trichloroethene | 2480 | | 15.3 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Trichlorofluoromethane | U | | 13.0 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 24.7 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 12.3 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 7.39 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 12.4 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Vinyl acetate | U | | 64.5 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |
| Vinyl chloride | 82.0 | J4 | 11.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Xylenes, Total | U | | 31.6 | 150 | 100 | 09/28/2017 21:12 | WG1025567 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *10/03/2017 16:32* | WG1025567 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/28/2017 21:12* | WG1025567 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *09/28/2017 21:12* | WG1025567 |
| *(S) Dibromofluoromethane* | *105* | | | *76.0-123* | | *10/03/2017 16:32* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *90.4* | | | *80.0-120* | | *10/03/2017 16:32* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *89.0* | | | *80.0-120* | | *09/28/2017 21:12* | WG1025567 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 41.2 | B J | 31.6 | 100 | 1 | 10/05/2017 00:58 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.9* | | | *77.0-122* | | *10/05/2017 00:58* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 2.02 | J J0 J4 | 1.05 | 25.0 | 1 | 10/03/2017 16:55 | WG1025567 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Carbon disulfide | 0.439 | J | 0.101 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 10/03/2017 16:55 | WG1025567 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1-Dichloroethene | 1.87 | | 0.188 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| cis-1,2-Dichloroethene | 13.3 | | 0.0933 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| trans-1,2-Dichloroethene | 1.13 | | 0.152 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.257 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 10/03/2017 16:55 | WG1025567 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Naphthalene | 1.07 | J | 0.174 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Styrene | U | | 0.117 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Tetrachloroethene | 12.7 | | 0.199 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Toluene | 0.748 | | 0.412 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Trichloroethene | 16.2 | | 0.153 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| Vinyl chloride | 0.239 | J J4 | 0.118 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *10/03/2017 16:55* | WG1025567 |
| *(S) Dibromofluoromethane* | *104* | | | *76.0-123* | | *10/03/2017 16:55* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *89.9* | | | *80.0-120* | | *10/03/2017 16:55* | WG1025567 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 55.2 | B J | 31.6 | 100 | 1 | 10/05/2017 01:21 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.0* | | | *77.0-122* | | *10/05/2017 01:21* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 7.30 | J J0 J4 | 1.05 | 25.0 | 1 | 10/03/2017 17:16 | WG1025567 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| Benzene | 0.332 | J | 0.0896 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Carbon disulfide | 0.685 | | 0.101 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| Chloroform | 0.198 | J | 0.0860 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 10/03/2017 17:16 | WG1025567 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| cis-1,2-Dichloroethene | 18.7 | | 0.0933 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.257 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 10/03/2017 17:16 | WG1025567 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 2-Butanone (MEK) | 1.43 | J | 1.28 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Styrene | U | | 0.117 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Tetrachloroethene | 15.4 | | 0.199 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Toluene | U | | 0.412 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Trichloroethene | 10.7 | | 0.153 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| Vinyl chloride | U | J4 | 0.118 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *10/03/2017 17:16* | WG1025567 |
| *(S) Dibromofluoromethane* | *104* | | | *76.0-123* | | *10/03/2017 17:16* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *90.6* | | | *80.0-120* | | *10/03/2017 17:16* | WG1025567 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 58.5 | B J | 31.6 | 100 | 1 | 10/05/2017 01:43 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.0* | | | *77.0-122* | | *10/05/2017 01:43* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 2.84 | J J0 J4 | 1.05 | 25.0 | 1 | 10/03/2017 17:38 | WG1025567 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Carbon disulfide | 2.27 | | 0.101 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 10/03/2017 17:38 | WG1025567 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| cis-1,2-Dichloroethene | 62.0 | | 0.0933 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.257 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 10/03/2017 17:38 | WG1025567 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Styrene | U | | 0.117 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Tetrachloroethene | 15.0 | | 0.199 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Toluene | 3.90 | | 0.412 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Trichloroethene | 19.1 | | 0.153 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| Vinyl chloride | U | J4 | 0.118 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *10/03/2017 17:38* | WG1025567 |
| *(S) Dibromofluoromethane* | *105* | | | *76.0-123* | | *10/03/2017 17:38* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *91.2* | | | *80.0-120* | | *10/03/2017 17:38* | WG1025567 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 | 1 | 10/05/2017 02:05 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.5* | | | *77.0-122* | | *10/05/2017 02:05* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 11.6 | J J0 J4 | 1.05 | 25.0 | 1 | 10/03/2017 17:59 | WG1025567 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 10/03/2017 17:59 | WG1025567 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.257 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 10/03/2017 17:59 | WG1025567 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 2-Butanone (MEK) | 1.69 | J | 1.28 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Styrene | U | | 0.117 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Toluene | U | | 0.412 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| Vinyl chloride | U | J4 | 0.118 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *10/03/2017 17:59* | WG1025567 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *10/03/2017 17:59* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *89.0* | | | *80.0-120* | | *10/03/2017 17:59* | WG1025567 |

## Method Blank (MB)

(MB) R3254760-3 10/01/17 13:28

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 39.2 | J | 31.6 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.3* | | | *77.0-122* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3254760-1 10/01/17 12:16 • (LCSD) R3254760-2 10/01/17 12:40

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 5310 | 5300 | 96.6 | 96.4 | 72.0-134 | | | 0.270 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *108* | *108* | *77.0-122* | | | | |

## L939987-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L939987-01 10/01/17 21:46 • (MS) R3254760-4 10/01/17 22:10 • (MSD) R3254760-5 10/01/17 22:34

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 127 | 5920 | 5620 | 105 | 99.9 | 1 | 23.0-159 | | | 5.22 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *108* | *108* | | *77.0-122* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R3254139-3 09/28/17 12:31

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 1.05 | 25.0 |
| Acrylonitrile | U | | 0.873 | 5.00 |
| Benzene | U | | 0.0896 | 0.500 |
| Bromobenzene | U | | 0.133 | 0.500 |
| Bromodichloromethane | U | | 0.0800 | 0.500 |
| Bromochloromethane | U | | 0.145 | 0.500 |
| Bromoform | U | | 0.186 | 0.500 |
| Bromomethane | U | | 0.157 | 2.50 |
| n-Butylbenzene | U | | 0.143 | 0.500 |
| sec-Butylbenzene | U | | 0.134 | 0.500 |
| tert-Butylbenzene | U | | 0.183 | 0.500 |
| Carbon disulfide | U | | 0.101 | 0.500 |
| Carbon tetrachloride | U | | 0.159 | 0.500 |
| Chlorobenzene | U | | 0.140 | 0.500 |
| Chlorodibromomethane | U | | 0.128 | 0.500 |
| Chloroethane | U | | 0.141 | 2.50 |
| Chloroform | U | | 0.0860 | 0.500 |
| Chloromethane | U | | 0.153 | 1.25 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 |
| Dibromomethane | U | | 0.117 | 0.500 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 |
| trans-1,4-Dichloro-2-butene | U | | 0.257 | 5.00 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 |

## Method Blank (MB)

(MB) R3254139-3 09/28/17 12:31

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Ethylbenzene | U | | 0.158 | 0.500 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 |
| 2-Hexanone | U | | 0.757 | 5.00 |
| n-Hexane | U | | 0.305 | 5.00 |
| Iodomethane | U | | 0.377 | 10.0 |
| Isopropylbenzene | U | | 0.126 | 0.500 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 |
| Methylene Chloride | U | | 1.07 | 2.50 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 |
| Naphthalene | U | | 0.174 | 2.50 |
| n-Propylbenzene | U | | 0.162 | 0.500 |
| Styrene | U | | 0.117 | 0.500 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 |
| Tetrachloroethene | U | | 0.199 | 0.500 |
| Toluene | U | | 0.412 | 0.500 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 |
| Trichloroethene | U | | 0.153 | 0.500 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 |
| Vinyl acetate | U | | 0.645 | 5.00 |
| Vinyl chloride | U | | 0.118 | 0.500 |
| Xylenes, Total | U | | 0.316 | 1.50 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* |
| *(S) 4-Bromofluorobenzene* | *89.5* | | | *80.0-120* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3254139-1 09/28/17 11:04 • (LCSD) R3254139-2 09/28/17 11:26

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 125 | 211 | 199 | 169 | 160 | 10.0-160 | J4 | | 5.51 | 23 |
| Acrylonitrile | 125 | 145 | 147 | 116 | 117 | 60.0-142 | | | 1.10 | 20 |
| Benzene | 25.0 | 27.5 | 27.2 | 110 | 109 | 69.0-123 | | | 1.22 | 20 |
| Bromobenzene | 25.0 | 24.0 | 23.7 | 96.1 | 94.9 | 79.0-120 | | | 1.24 | 20 |
| Bromodichloromethane | 25.0 | 25.4 | 24.8 | 102 | 99.4 | 76.0-120 | | | 2.36 | 20 |
| Bromochloromethane | 25.0 | 26.5 | 26.7 | 106 | 107 | 76.0-122 | | | 0.670 | 20 |
| Bromoform | 25.0 | 25.3 | 24.7 | 101 | 98.9 | 67.0-132 | | | 2.23 | 20 |
| Bromomethane | 25.0 | 32.5 | 31.2 | 130 | 125 | 18.0-160 | | | 4.30 | 20 |
| n-Butylbenzene | 25.0 | 27.4 | 27.2 | 109 | 109 | 72.0-126 | | | 0.780 | 20 |
| sec-Butylbenzene | 25.0 | 26.6 | 26.3 | 106 | 105 | 74.0-121 | | | 0.930 | 20 |
| tert-Butylbenzene | 25.0 | 25.4 | 25.3 | 102 | 101 | 75.0-122 | | | 0.420 | 20 |
| Carbon disulfide | 25.0 | 28.0 | 27.7 | 112 | 111 | 55.0-127 | | | 1.14 | 20 |
| Carbon tetrachloride | 25.0 | 26.8 | 25.5 | 107 | 102 | 63.0-122 | | | 4.90 | 20 |
| Chlorobenzene | 25.0 | 26.3 | 25.8 | 105 | 103 | 79.0-121 | | | 1.72 | 20 |
| Chlorodibromomethane | 25.0 | 26.6 | 26.5 | 107 | 106 | 75.0-125 | | | 0.480 | 20 |
| Chloroethane | 25.0 | 32.9 | 33.1 | 132 | 133 | 47.0-152 | | | 0.760 | 20 |
| Chloroform | 25.0 | 27.1 | 26.6 | 108 | 106 | 72.0-121 | | | 1.92 | 20 |
| Chloromethane | 25.0 | 29.5 | 29.4 | 118 | 117 | 48.0-139 | | | 0.290 | 20 |
| 2-Chlorotoluene | 25.0 | 24.3 | 24.2 | 97.3 | 96.7 | 74.0-122 | | | 0.680 | 20 |
| 4-Chlorotoluene | 25.0 | 24.1 | 24.0 | 96.6 | 96.1 | 79.0-120 | | | 0.440 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 24.4 | 24.8 | 97.7 | 99.3 | 64.0-127 | | | 1.64 | 20 |
| 1,2-Dibromoethane | 25.0 | 25.8 | 25.6 | 103 | 103 | 77.0-123 | | | 0.700 | 20 |
| Dibromomethane | 25.0 | 26.3 | 25.8 | 105 | 103 | 78.0-120 | | | 1.72 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 25.8 | 25.7 | 103 | 103 | 80.0-120 | | | 0.490 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 25.4 | 25.1 | 102 | 100 | 72.0-123 | | | 1.18 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 25.6 | 25.1 | 103 | 100 | 77.0-120 | | | 2.22 | 20 |
| Dichlorodifluoromethane | 25.0 | 34.2 | 34.0 | 137 | 136 | 49.0-155 | | | 0.400 | 20 |
| 1,1-Dichloroethane | 25.0 | 27.9 | 27.0 | 112 | 108 | 70.0-126 | | | 3.16 | 20 |
| 1,2-Dichloroethane | 25.0 | 28.2 | 27.8 | 113 | 111 | 67.0-126 | | | 1.64 | 20 |
| 1,1-Dichloroethene | 25.0 | 27.0 | 26.5 | 108 | 106 | 64.0-129 | | | 1.77 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 26.7 | 26.0 | 107 | 104 | 73.0-120 | | | 2.54 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 27.0 | 26.7 | 108 | 107 | 71.0-121 | | | 0.890 | 20 |
| 1,2-Dichloropropane | 25.0 | 26.7 | 26.5 | 107 | 106 | 75.0-125 | | | 0.990 | 20 |
| 1,1-Dichloropropene | 25.0 | 28.1 | 27.8 | 112 | 111 | 71.0-129 | | | 0.830 | 20 |
| 1,3-Dichloropropane | 25.0 | 26.5 | 26.5 | 106 | 106 | 80.0-121 | | | 0.110 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 26.2 | 26.1 | 105 | 104 | 79.0-123 | | | 0.370 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 26.1 | 26.1 | 104 | 104 | 74.0-127 | | | 0.0900 | 20 |
| trans-1,4-Dichloro-2-butene | 25.0 | 13.4 | 13.6 | 53.6 | 54.2 | 55.0-134 | J4 | J4 | 1.22 | 20 |
| 2,2-Dichloropropane | 25.0 | 28.1 | 28.0 | 112 | 112 | 60.0-125 | | | 0.240 | 20 |
| Di-isopropyl ether | 25.0 | 26.9 | 26.9 | 107 | 108 | 59.0-133 | | | 0.0900 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3254139-1 09/28/17 11:04 • (LCSD) R3254139-2 09/28/17 11:26

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 25.0 | 25.5 | 25.1 | 102 | 101 | 77.0-120 | | | 1.58 | 20 |
| Hexachloro-1,3-butadiene | 25.0 | 23.7 | 24.7 | 94.6 | 98.8 | 64.0-131 | | | 4.35 | 20 |
| 2-Hexanone | 125 | 145 | 144 | 116 | 116 | 58.0-147 | | | 0.370 | 20 |
| n-Hexane | 25.0 | 29.0 | 28.4 | 116 | 114 | 56.0-124 | | | 1.95 | 20 |
| Iodomethane | 125 | 136 | 134 | 108 | 107 | 57.0-140 | | | 1.11 | 20 |
| Isopropylbenzene | 25.0 | 24.8 | 24.4 | 99.1 | 97.7 | 75.0-120 | | | 1.35 | 20 |
| p-Isopropyltoluene | 25.0 | 26.6 | 26.4 | 106 | 106 | 74.0-126 | | | 0.550 | 20 |
| 2-Butanone (MEK) | 125 | 151 | 148 | 120 | 119 | 37.0-158 | | | 1.58 | 20 |
| Methylene Chloride | 25.0 | 26.4 | 26.3 | 106 | 105 | 66.0-121 | | | 0.500 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 130 | 129 | 104 | 103 | 59.0-143 | | | 0.860 | 20 |
| Methyl tert-butyl ether | 25.0 | 26.9 | 27.0 | 107 | 108 | 64.0-123 | | | 0.390 | 20 |
| Naphthalene | 25.0 | 23.6 | 24.6 | 94.2 | 98.4 | 62.0-128 | | | 4.33 | 20 |
| n-Propylbenzene | 25.0 | 24.9 | 24.6 | 99.4 | 98.3 | 79.0-120 | | | 1.14 | 20 |
| Styrene | 25.0 | 23.8 | 23.9 | 95.1 | 95.6 | 78.0-124 | | | 0.440 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 25.7 | 25.7 | 103 | 103 | 75.0-122 | | | 0.150 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 24.4 | 24.3 | 97.8 | 97.2 | 71.0-122 | | | 0.570 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 25.0 | 27.9 | 27.7 | 112 | 111 | 61.0-136 | | | 0.770 | 20 |
| Tetrachloroethene | 25.0 | 25.6 | 25.1 | 103 | 100 | 70.0-127 | | | 2.18 | 20 |
| Toluene | 25.0 | 25.6 | 25.2 | 102 | 101 | 77.0-120 | | | 1.44 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 23.9 | 24.8 | 95.6 | 99.4 | 61.0-133 | | | 3.85 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 24.2 | 24.3 | 96.8 | 97.3 | 69.0-129 | | | 0.540 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 27.8 | 27.4 | 111 | 110 | 68.0-122 | | | 1.63 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 25.5 | 25.5 | 102 | 102 | 78.0-120 | | | 0.130 | 20 |
| Trichloroethene | 25.0 | 26.0 | 26.0 | 104 | 104 | 78.0-120 | | | 0.110 | 20 |
| Trichlorofluoromethane | 25.0 | 28.4 | 28.5 | 114 | 114 | 56.0-137 | | | 0.380 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 24.3 | 24.0 | 97.2 | 96.1 | 72.0-124 | | | 1.14 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 24.6 | 24.4 | 98.4 | 97.5 | 75.0-120 | | | 0.990 | 20 |
| 1,2,3-Trimethylbenzene | 25.0 | 26.5 | 26.4 | 106 | 106 | 75.0-120 | | | 0.330 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 24.4 | 24.5 | 97.6 | 98.2 | 75.0-120 | | | 0.580 | 20 |
| Vinyl acetate | 125 | 145 | 143 | 116 | 114 | 46.0-160 | | | 1.14 | 20 |
| Vinyl chloride | 25.0 | 33.9 | 33.0 | 136 | 132 | 64.0-133 | J4 | | 2.77 | 20 |
| Xylenes, Total | 75.0 | 76.9 | 76.4 | 103 | 102 | 77.0-120 | | | 0.650 | 20 |
| *(S) Toluene-d8* | | | | *101* | *102* | *80.0-120* | | | | |
| *(S) Dibromofluoromethane* | | | | *103* | *104* | *76.0-123* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *92.1* | *93.2* | *80.0-120* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

| | |
|---|---|
| MDL | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J0 | J0: Calibration verification outside of acceptance limits. Result is estimated. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Conneticut | PH-0197 | North Carolina [1] | DW21704 |
| Florida | E87487 | North Carolina [2] | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia [1] | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky [1] | 90010 | South Dakota | n/a |
| Kentucky [2] | 16 | Tennessee [1 4] | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

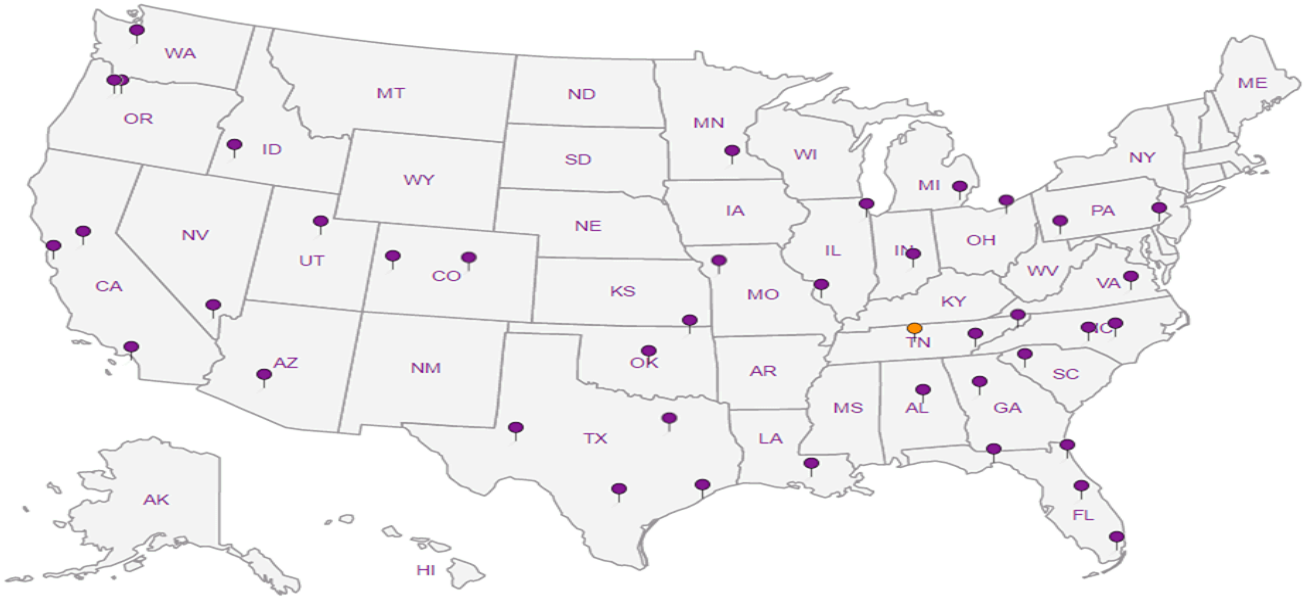
## Third Party & Federal Accreditations

| | | | |
|---|---|---|---|
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Pres Chk

Report to: ~~Mark Reid~~ Bill Haldeman

Email To: mdahl@pesenv.com; kspringstead@pesenv.com

Project Description: ~~MVSC~~ AMERICAN LINEN

City/State Collected: Seattle, WA

Phone: 206-529-3980
Fax: 206-529-3985

Client Project # ~~1358.001.01~~ 1413.001.02.602

Lab Project # PESENVSWA-~~135800101~~ 1413001 02

Collected by (print): Karsten Springstead

Site/Facility ID # ~~MVSC~~ AMERICAN LINEN

P.O. # 1413.001.02.602 ~~1358.001.01.003~~

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | 8260C 40mlAmb-HCl | NWTPH-Gx | | | | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-139-092517 | Grab | GW | 75 | 9-25-17 | 1200 | 6 | X | X | | | | | | | | | | -01 |
| MW-132-092517 | | GW | 75 | | 1300 | 6 | X | X | | | | | | | | | | -02 |
| MW-135-092517 | | GW | 75 | | 1400 | 6 | X | X | | | | | | | | | | -03 |
| MW-133-092517 | | GW | 133 | | 1500 | 6 | X | X | | | | | | | | | | -04 |
| MW-136-092517 | | GW | 90 | | 1650 | 6 | X | X | | | | | | | | | | -05 |
| MW-137-092517 | | GW | 110 | | 1745 | 6 | X | X | | | | | | | | | | -06 |
| EQ-092517 | | GW | — | | 1815 | 6 | X | X | | | | | | | | | | -07 |
| | | GW | | | | 3 | X | | | | | | | | | | | |
| | | GW | | | | 3 | X | | | | | | | | | | | |
| | | GW | | | | 3 | X | | | | | | | | | | | |

Chain of Custody Page ___ of ___

ESC LABORATORIES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 939416

Table # G057

Acctnum: PESENVSWA

Template: T121444

Prelogin: P609637

TSR: 110 - Brian Ford

PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7466 1463 9147

Sample Receipt Checklist

| | | |
|---|---|---|
| COC Seal Present/Intact: | NP | Y / N |
| COC Signed/Accurate: | | Y / N |
| Bottles arrive intact: | | Y / N |
| Correct bottles used: | | Y / N |
| Sufficient volume sent: | | Y / N |
| If Applicable | | |
| VOA Zero Headspace: | | Y / N |
| Preservation Correct/Checked: | | Y / N |

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 9-26-17 | 1230 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| | | | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | |

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 1.2 °C Bottles Received: 42

Date: 9-27-17 Time: 845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

# MEMORANDUM

**TO:** Project File **DATE:** October 18, 2017

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** Former American Linen Supply Site, Seattle WA

**PROJECT #:** 1413.001.02.604

**TASK:** September 25, 2017 –Groundwater Samples

**LAB:** ESC Lab ID L939416

---

Six (6) groundwater samples and an equipment blank were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 25, 2017. The samples were shipped and delivered to ESC Lab Sciences (ESC) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C; and
- Total petroleum hydrocarbons as gasoline range organics (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology.

The results are reported in ESC Sample Delivery Group (SDG) L939416. The quarterly monitoring round occurred between August and September of 2017. Associated sample data are reported in 27 ESC SDGs (SDGs L929881, L929901, L930317, L930670, L930884, L931390, L931655, L932059, L932260, L932611, L932876, L933267, L933455, L933742, L934130, L934673, L934916, L935150, L935266, L936064, L936401, L937125, L937802, L938165, L938636, L938873, and L939416). The quality assurance review of the sample data associated with SDG L939416 is summarized below.

## DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data along with ESC control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

## DATA VALIDATION

### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected on September 25, 2017 in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice and shipped overnight by courier to ESC. The laboratory reported that the cooler and samples were received at 1.2 degrees Centigrade (°C) and below the recommended temperature preservation of 6°C. The laboratory indicated that the samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

## Holding Times

*USEPA Method 8260C:*
All samples were analyzed for VOCs within the USEPA recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

*NWTPH-Gx Method:*
All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however ESC's notes indicate the following:

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for trans-1,4-dichloro-2-butene associated with analytical batch WG1025567 (analyzed on September 28, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J).**

- *USEPA Method 8260C:* Continuing calibration verification (CCV) issues were noted by ESC for acetone and trans-1,4-dichloro-2-butene associated with analytical batch WG1025567 (analyzed on October 3, 2017). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated sample results with laboratory qualified J0 results are estimated and qualified (UJ or J) with the exception of acetone results for sample MW-137-092517.** For sample MW-137-092517 refer to the discussion under the equipment blank for further information.

## Method Blank Results

*USEPA Method 8260C:*
Laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at or above the reported detection limits (RDLs).

*NWTPH-Gx Method:*

Laboratory method blanks were included with the analytical batch per method requirement. The target analyte (gasoline) was detected in the method blank below the RDL and qualified (J) by the laboratory for the following samples:

- **A low level of gasoline was detected in the method blank. Associated gasoline results MW-139-092517, MW-132-092517, MW-133-092517, MW-136-092517, and MW-137-092517 are qualified as not detected (U) due to blank contamination.** No action was taken for sample MW-135-092517 because the sample gasoline concentration was far greater than the gasoline detection in the associated method blank.

## Trip Blank Results

*USEPA Method 8260C and NWTPH-Gx:*
A trip blank was not collected.

## Field, Rinsate, or Equipment Blank Results

An equipment blank was collected after collecting sample MW-137-092517 and analyzed for VOCs and gasoline. The target analytes (VOCs and gasoline) were not detected in the equipment blanks at or above the reported detection limits (RDLs) with two exceptions:

- Low levels of acetone and 2-butanone were detected below the RDL in the equipment blank. No action was necessary for 2-butanone (MEK) as it was not detected in the associated sample. **Acetone was detected at a low level in the associated sample MW-137-092517 and is qualified (U) as not detected due to associated blank contamination.**

## Field Duplicate Analyses

A field duplicate sample was not collected.

## Laboratory Duplicate Analyses

*USEPA Method 8260C:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*NWTPH-Gx Method:*
A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) and/or matrix spike/matrix spike duplicate (MS/MSD) results for precision data.

## Surrogate Recoveries

*USEPA Method 8260C:*
The surrogate recovery results for the samples, LCS/LCSDs, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*
The surrogate recovery results for the samples, LCS/LCSDs, MS/MSDs and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## Laboratory Control Samples

*USEPA Method 8260C:*
LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following exceptions:

- LCSD (Batch WG1025567 for waters) % recovery for acetone is above laboratory criteria and qualified by the laboratory (J4). **All associated detected results are estimated and qualified (J) due to elevated spike recovery with the exception of sample MW-137-092517.** Refer to the discussion under the equipment blank for further information.

- LCS/LCSD (Batch WG1025567 for waters) % recoveries for trans-1,4-dichloro-2-butene are below laboratory criteria and qualified by the laboratory (J4). **Associated sample results are estimated and qualified (UJ) due to low LCS/LCSD recoveries and a CCV recovery outside of laboratory acceptance limits.**

- LCS (Batch WG1025567 for waters) % recovery for vinyl chloride is above laboratory criteria and qualified by the laboratory (J4). **All associated detected vinyl chloride results are estimated and qualified (J) due to elevated spike recovery.**

*NWTPH-Gx Method:*
LCS/LCSDs were analyzed by the NWTPH-Gx method. The LCS/LCSD %Rs and RPD for the control analyte (gasoline) are within the laboratory control criteria for waters.

## Matrix Spike/Matrix Spike Duplicates

*USEPA Method 8260C:*
Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD results for more information.

*NWTPH-Gx Method:*
MS/MSD analyses were performed on a non-client sample. MS/MSD % Rs and RPDs were within the laboratory control criteria for waters.

## Other Quality Control Issues

No laboratory quality control issues were identified in the laboratory report with the following exception:

- Water sample MW-132-092517 VOC results are footnoted by ESC to indicate that target compounds are too high to re-analyze at a lower dilution. No action was taken other than to note this.

## Compound Identification and Quantitation Limits

The RDLs used for this sample group were acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

## Data Assessment

The laboratory data reported for this project were reviewed based on laboratory control limit acceptance criteria and criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers were assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 62.2 U | B J | 31.6 | 100 | 1 | 10/01/2017 17:01 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.7* | | | *77.0-122* | | *10/01/2017 17:01* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 2.87 J | J J4 | 1.05 | 25.0 | 1 | 09/28/2017 20:28 | WG1025567 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Carbon disulfide | 1.18 | | 0.101 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| Chloroform | 1.33 | | 0.0860 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 09/28/2017 20:28 | WG1025567 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| cis-1,2-Dichloroethene | 1.42 | | 0.0933 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.257 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 09/28/2017 20:28 | WG1025567 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Methylene Chloride | 1.10 J | J | 1.07 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Styrene | U | | 0.117 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Toluene | 0.516 | | 0.412 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 09/28/2017 20:28 | WG1025567 |
| Vinyl chloride | 0.246 J | J J4 | 0.118 | 0.500 | 1 | 09/28/2017 20:28 | WG1025567 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 09/28/2017 20:28 | WG1025567 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *09/28/2017 20:28* | WG1025567 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *09/28/2017 20:28* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *88.5* | | | *80.0-120* | | *09/28/2017 20:28* | WG1025567 |

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## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 95.9 U | B J | 31.6 | 100 | 1 | 10/05/2017 00:36 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.6* | | | *77.0-122* | | *10/05/2017 00:36* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 5.91 J | J J0 J4 | 5.25 | 125 | 5 | 10/03/2017 16:10 | WG1025567 |
| Acrylonitrile | U | | 4.36 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| Benzene | U | | 0.448 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Bromobenzene | U | | 0.665 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Bromodichloromethane | U | | 0.400 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Bromochloromethane | U | | 0.725 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Bromoform | U | | 0.930 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Bromomethane | U | | 0.785 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| n-Butylbenzene | U | | 0.715 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| sec-Butylbenzene | U | | 0.670 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| tert-Butylbenzene | U | | 0.915 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Carbon disulfide | U | | 0.505 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Carbon tetrachloride | U | | 0.795 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Chlorobenzene | U | | 0.700 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Chlorodibromomethane | U | | 0.640 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Chloroethane | U | | 0.705 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| Chloroform | U | | 0.430 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Chloromethane | U | | 0.765 | 6.25 | 5 | 10/03/2017 16:10 | WG1025567 |
| 2-Chlorotoluene | U | | 0.555 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 4-Chlorotoluene | U | | 0.486 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | 1.62 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2-Dibromoethane | U | | 0.965 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Dibromomethane | U | | 0.585 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2-Dichlorobenzene | U | | 0.505 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,3-Dichlorobenzene | U | | 0.650 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,4-Dichlorobenzene | U | | 0.605 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Dichlorodifluoromethane | U | | 0.635 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1-Dichloroethane | U | | 0.570 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2-Dichloroethane | U | | 0.540 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1-Dichloroethene | U | | 0.940 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| cis-1,2-Dichloroethene | 196 | | 0.466 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| trans-1,2-Dichloroethene | U | | 0.760 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2-Dichloropropane | U | | 0.950 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1-Dichloropropene | U | | 0.640 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,3-Dichloropropane | U | | 0.735 | 5.00 | 5 | 10/03/2017 16:10 | WG1025567 |
| cis-1,3-Dichloropropene | U | | 0.488 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| trans-1,3-Dichloropropene | U | | 1.11 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U | UJ J0 J4 | 1.28 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| 2,2-Dichloropropane | U | | 0.464 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Di-isopropyl ether | U | | 0.462 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Ethylbenzene | U | | 0.790 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | 0.785 | 5.00 | 5 | 10/03/2017 16:10 | WG1025567 |
| 2-Hexanone | U | | 3.78 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| n-Hexane | U | | 1.52 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| Iodomethane | U | | 1.88 | 50.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| Isopropylbenzene | U | | 0.630 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| p-Isopropyltoluene | U | | 0.690 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 2-Butanone (MEK) | U | | 6.40 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 5.35 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 4.12 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| Methyl tert-butyl ether | U | | 0.510 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Naphthalene | U | | 0.870 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| n-Propylbenzene | U | | 0.810 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Styrene | U | | 0.585 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 0.600 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 0.650 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.820 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Tetrachloroethene | U | | 0.995 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Toluene | U | | 2.06 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 0.820 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 1.78 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 0.470 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 0.930 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Trichloroethene | 1.95 J | J | 0.765 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Trichlorofluoromethane | U | | 0.650 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 1.24 | 12.5 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 0.615 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 0.370 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 0.620 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Vinyl acetate | U | | 3.22 | 25.0 | 5 | 10/03/2017 16:10 | WG1025567 |
| Vinyl chloride | 1.76 J | J J4 | 0.590 | 2.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| Xylenes, Total | U | | 1.58 | 7.50 | 5 | 10/03/2017 16:10 | WG1025567 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *10/03/2017 16:10* | WG1025567 |
| *(S) Dibromofluoromethane* | *103* | | | *76.0-123* | | *10/03/2017 16:10* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *91.8* | | | *80.0-120* | | *10/03/2017 16:10* | WG1025567 |

Sample Narrative:

L939416-02 WG1025567: Non-target compounds too high to run at a lower dilution.

JC 10/18/17

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 10900 | B | 3160 | 10000 | 100 | 10/01/2017 17:49 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.5* | | | *77.0-122* | | *10/01/2017 17:49* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U UJ | J4 | 105 | 2500 | 100 | 09/28/2017 21:12 | WG1025567 |
| Acrylonitrile | U | | 87.3 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |
| Benzene | U | | 8.96 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Bromobenzene | U | | 13.3 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Bromodichloromethane | U | | 8.00 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Bromochloromethane | U | | 14.5 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Bromoform | U | | 18.6 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Bromomethane | U | | 15.7 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| n-Butylbenzene | U | | 14.3 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| sec-Butylbenzene | U | | 13.4 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| tert-Butylbenzene | U | | 18.3 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Carbon disulfide | U | | 10.1 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Carbon tetrachloride | U | | 15.9 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Chlorobenzene | U | | 14.0 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Chlorodibromomethane | U | | 12.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Chloroethane | U | | 14.1 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| Chloroform | U | | 8.60 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Chloromethane | U | | 15.3 | 125 | 100 | 09/28/2017 21:12 | WG1025567 |
| 2-Chlorotoluene | U | | 11.1 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 4-Chlorotoluene | U | | 9.72 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | 32.5 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2-Dibromoethane | U | | 19.3 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Dibromomethane | U | | 11.7 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2-Dichlorobenzene | U | | 10.1 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,3-Dichlorobenzene | U | | 13.0 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,4-Dichlorobenzene | U | | 12.1 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Dichlorodifluoromethane | U | | 12.7 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1-Dichloroethane | U | | 11.4 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2-Dichloroethane | U | | 10.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1-Dichloroethene | 87.2 | | 18.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| cis-1,2-Dichloroethene | 16100 | | 93.3 | 500 | 1000 | 10/03/2017 16:32 | WG1025567 |
| trans-1,2-Dichloroethene | U | | 15.2 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2-Dichloropropane | U | | 19.0 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1-Dichloropropene | U | | 12.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,3-Dichloropropane | U | | 14.7 | 100 | 100 | 09/28/2017 21:12 | WG1025567 |
| cis-1,3-Dichloropropene | U | | 9.76 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| trans-1,3-Dichloropropene | U | | 22.2 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 25.7 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |
| 2,2-Dichloropropane | U | | 9.29 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Di-isopropyl ether | U | | 9.24 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Ethylbenzene | U | | 15.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | 15.7 | 100 | 100 | 09/28/2017 21:12 | WG1025567 |
| 2-Hexanone | U | | 75.7 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |
| n-Hexane | U | | 30.5 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |
| Iodomethane | U | | 37.7 | 1000 | 100 | 09/28/2017 21:12 | WG1025567 |
| Isopropylbenzene | U | | 12.6 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| p-Isopropyltoluene | U | | 13.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 2-Butanone (MEK) | U | | 128 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 107 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 82.3 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |
| Methyl tert-butyl ether | U | | 10.2 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Naphthalene | U | | 17.4 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| n-Propylbenzene | U | | 16.2 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Styrene | U | | 11.7 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 12.0 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 13.0 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 16.4 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Tetrachloroethene | 10400 | | 19.9 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Toluene | U | | 41.2 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 16.4 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 35.5 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 9.40 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 18.6 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Trichloroethene | 2480 | | 15.3 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Trichlorofluoromethane | U | | 13.0 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 24.7 | 250 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 12.3 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 7.39 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 12.4 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Vinyl acetate | U | | 64.5 | 500 | 100 | 09/28/2017 21:12 | WG1025567 |
| Vinyl chloride | 82.0 J | J4 | 11.8 | 50.0 | 100 | 09/28/2017 21:12 | WG1025567 |
| Xylenes, Total | U | | 31.6 | 150 | 100 | 09/28/2017 21:12 | WG1025567 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *10/03/2017 16:32* | WG1025567 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *09/28/2017 21:12* | WG1025567 |
| *(S) Dibromofluoromethane* | *101* | | | *76.0-123* | | *09/28/2017 21:12* | WG1025567 |
| *(S) Dibromofluoromethane* | *105* | | | *76.0-123* | | *10/03/2017 16:32* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *90.4* | | | *80.0-120* | | *10/03/2017 16:32* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *89.0* | | | *80.0-120* | | *09/28/2017 21:12* | WG1025567 |

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## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 41.2 | U | B J | 31.6 | 100 | 1 | 10/05/2017 00:58 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.9* | | | | *77.0-122* | | *10/05/2017 00:58* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| Acetone | 2.02 | J | J J0 J4 | 1.05 | 25.0 | 1 | 10/03/2017 16:55 | WG1025567 |
| Acrylonitrile | U | | | 0.873 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| Benzene | U | | | 0.0896 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Bromobenzene | U | | | 0.133 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Bromodichloromethane | U | | | 0.0800 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Bromochloromethane | U | | | 0.145 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Bromoform | U | | | 0.186 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Bromomethane | U | | | 0.157 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| n-Butylbenzene | U | | | 0.143 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| sec-Butylbenzene | U | | | 0.134 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| tert-Butylbenzene | U | | | 0.183 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Carbon disulfide | 0.439 | J | J | 0.101 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Carbon tetrachloride | U | | | 0.159 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Chlorobenzene | U | | | 0.140 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Chlorodibromomethane | U | | | 0.128 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Chloroethane | U | | | 0.141 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| Chloroform | U | | | 0.0860 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Chloromethane | U | | | 0.153 | 1.25 | 1 | 10/03/2017 16:55 | WG1025567 |
| 2-Chlorotoluene | U | | | 0.111 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 4-Chlorotoluene | U | | | 0.0972 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | | 0.325 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2-Dibromoethane | U | | | 0.193 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Dibromomethane | U | | | 0.117 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2-Dichlorobenzene | U | | | 0.101 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,3-Dichlorobenzene | U | | | 0.130 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,4-Dichlorobenzene | U | | | 0.121 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Dichlorodifluoromethane | U | | | 0.127 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1-Dichloroethane | U | | | 0.114 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2-Dichloroethane | U | | | 0.108 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1-Dichloroethene | 1.87 | | | 0.188 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| cis-1,2-Dichloroethene | 13.3 | | | 0.0933 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| trans-1,2-Dichloroethene | 1.13 | | | 0.152 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2-Dichloropropane | U | | | 0.190 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1-Dichloropropene | U | | | 0.128 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,3-Dichloropropane | U | | | 0.147 | 1.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| cis-1,3-Dichloropropene | U | | | 0.0976 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| trans-1,3-Dichloropropene | U | | | 0.222 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U | UJ | J0 J4 | 0.257 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| 2,2-Dichloropropane | U | | | 0.0929 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Di-isopropyl ether | U | | | 0.0924 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Ethylbenzene | U | | | 0.158 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | | 0.157 | 1.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| 2-Hexanone | U | | | 0.757 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| n-Hexane | U | | | 0.305 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| Iodomethane | U | | | 0.377 | 10.0 | 1 | 10/03/2017 16:55 | WG1025567 |
| Isopropylbenzene | U | | | 0.126 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| p-Isopropyltoluene | U | | | 0.138 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 2-Butanone (MEK) | U | | | 1.28 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Naphthalene | 1.07 J | J | 0.174 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Styrene | U | | 0.117 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Tetrachloroethene | 12.7 | | 0.199 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Toluene | 0.748 | | 0.412 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Trichloroethene | 16.2 | | 0.153 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 10/03/2017 16:55 | WG1025567 |
| Vinyl chloride | 0.239 J | J J4 | 0.118 | 0.500 | 1 | 10/03/2017 16:55 | WG1025567 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 10/03/2017 16:55 | WG1025567 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *10/03/2017 16:55* | WG1025567 |
| *(S) Dibromofluoromethane* | *104* | | | *76.0-123* | | *10/03/2017 16:55* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *89.9* | | | *80.0-120* | | *10/03/2017 16:55* | WG1025567 |

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## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Gasoline Range Organics-NWTPH | 55.2 U | B J | 31.6 | 100 | 1 | 10/05/2017 01:21 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.0* | | | *77.0-122* | | *10/05/2017 01:21* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Acetone | 7.30 J | J J0 J4 | 1.05 | 25.0 | 1 | 10/03/2017 17:16 | WG1025567 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| Benzene | 0.332 J | J | 0.0896 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Carbon disulfide | 0.685 | | 0.101 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| Chloroform | 0.198 J | J | 0.0860 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 10/03/2017 17:16 | WG1025567 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| cis-1,2-Dichloroethene | 18.7 | | 0.0933 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.257 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 10/03/2017 17:16 | WG1025567 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 2-Butanone (MEK) | 1.43 J | J | 1.28 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Styrene | U | | 0.117 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Tetrachloroethene | 15.4 | | 0.199 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Toluene | U | | 0.412 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Trichloroethene | 10.7 | | 0.153 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 10/03/2017 17:16 | WG1025567 |
| Vinyl chloride | U | J4 | 0.118 | 0.500 | 1 | 10/03/2017 17:16 | WG1025567 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 10/03/2017 17:16 | WG1025567 |
| *(S) Toluene-d8* | *104* | | | *80.0-120* | | *10/03/2017 17:16* | WG1025567 |
| *(S) Dibromofluoromethane* | *104* | | | *76.0-123* | | *10/03/2017 17:16* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *90.6* | | | *80.0-120* | | *10/03/2017 17:16* | WG1025567 |

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## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 58.5 U | B J | 31.6 | 100 | 1 | 10/05/2017 01:43 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.0* | | | *77.0-122* | | *10/05/2017 01:43* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 2.84 U | J J0 J4 | 1.05 | 25.0 | 1 | 10/03/2017 17:38 | WG1025567 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Carbon disulfide | 2.27 | | 0.101 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 10/03/2017 17:38 | WG1025567 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| cis-1,2-Dichloroethene | 62.0 | | 0.0933 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U UJ | J0 J4 | 0.257 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 10/03/2017 17:38 | WG1025567 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 2-Butanone (MEK) | U | | 1.28 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |

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## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Styrene | U | | 0.117 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Tetrachloroethene | 15.0 | | 0.199 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Toluene | 3.90 | | 0.412 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Trichloroethene | 19.1 | | 0.153 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 10/03/2017 17:38 | WG1025567 |
| Vinyl chloride | U | J4 | 0.118 | 0.500 | 1 | 10/03/2017 17:38 | WG1025567 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 10/03/2017 17:38 | WG1025567 |
| *(S) Toluene-d8* | *105* | | | *80.0-120* | | *10/03/2017 17:38* | WG1025567 |
| *(S) Dibromofluoromethane* | *105* | | | *76.0-123* | | *10/03/2017 17:38* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *91.2* | | | *80.0-120* | | *10/03/2017 17:38* | WG1025567 |

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## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 | 1 | 10/05/2017 02:05 | WG1026503 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.5* | | | *77.0-122* | | *10/05/2017 02:05* | WG1026503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | 11.6 | J J0 J4 | 1.05 | 25.0 | 1 | 10/03/2017 17:59 | WG1025567 |
| Acrylonitrile | U | | 0.873 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| Benzene | U | | 0.0896 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Bromobenzene | U | | 0.133 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Bromodichloromethane | U | | 0.0800 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Bromochloromethane | U | | 0.145 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Bromoform | U | | 0.186 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Bromomethane | U | | 0.157 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| n-Butylbenzene | U | | 0.143 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| sec-Butylbenzene | U | | 0.134 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| tert-Butylbenzene | U | | 0.183 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Carbon disulfide | U | | 0.101 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Carbon tetrachloride | U | | 0.159 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Chlorobenzene | U | | 0.140 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Chlorodibromomethane | U | | 0.128 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Chloroethane | U | | 0.141 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| Chloroform | U | | 0.0860 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Chloromethane | U | | 0.153 | 1.25 | 1 | 10/03/2017 17:59 | WG1025567 |
| 2-Chlorotoluene | U | | 0.111 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 4-Chlorotoluene | U | | 0.0972 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.325 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2-Dibromoethane | U | | 0.193 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Dibromomethane | U | | 0.117 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2-Dichlorobenzene | U | | 0.101 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,3-Dichlorobenzene | U | | 0.130 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,4-Dichlorobenzene | U | | 0.121 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Dichlorodifluoromethane | U | | 0.127 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1-Dichloroethane | U | | 0.114 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2-Dichloroethane | U | | 0.108 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1-Dichloroethene | U | | 0.188 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| cis-1,2-Dichloroethene | U | | 0.0933 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| trans-1,2-Dichloroethene | U | | 0.152 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2-Dichloropropane | U | | 0.190 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1-Dichloropropene | U | | 0.128 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,3-Dichloropropane | U | | 0.147 | 1.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| cis-1,3-Dichloropropene | U | | 0.0976 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| trans-1,3-Dichloropropene | U | | 0.222 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| trans-1,4-Dichloro-2-butene | U | J0 J4 | 0.257 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| 2,2-Dichloropropane | U | | 0.0929 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Di-isopropyl ether | U | | 0.0924 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Ethylbenzene | U | | 0.158 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Hexachloro-1,3-butadiene | U | | 0.157 | 1.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| 2-Hexanone | U | | 0.757 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| n-Hexane | U | | 0.305 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| Iodomethane | U | | 0.377 | 10.0 | 1 | 10/03/2017 17:59 | WG1025567 |
| Isopropylbenzene | U | | 0.126 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| p-Isopropyltoluene | U | | 0.138 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 2-Butanone (MEK) | 1.69 | J | 1.28 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Methylene Chloride | U | | 1.07 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.823 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| Methyl tert-butyl ether | U | | 0.102 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Naphthalene | U | | 0.174 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| n-Propylbenzene | U | | 0.162 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Styrene | U | | 0.117 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1,1,2-Tetrachloroethane | U | | 0.120 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1,2,2-Tetrachloroethane | U | | 0.130 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.164 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Tetrachloroethene | U | | 0.199 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Toluene | U | | 0.412 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2,3-Trichlorobenzene | U | | 0.164 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2,4-Trichlorobenzene | U | | 0.355 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1,1-Trichloroethane | U | | 0.0940 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,1,2-Trichloroethane | U | | 0.186 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Trichloroethene | U | | 0.153 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Trichlorofluoromethane | U | | 0.130 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2,3-Trichloropropane | U | | 0.247 | 2.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2,4-Trimethylbenzene | U | | 0.123 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,2,3-Trimethylbenzene | U | | 0.0739 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| 1,3,5-Trimethylbenzene | U | | 0.124 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Vinyl acetate | U | | 0.645 | 5.00 | 1 | 10/03/2017 17:59 | WG1025567 |
| Vinyl chloride | U | J4 | 0.118 | 0.500 | 1 | 10/03/2017 17:59 | WG1025567 |
| Xylenes, Total | U | | 0.316 | 1.50 | 1 | 10/03/2017 17:59 | WG1025567 |
| *(S) Toluene-d8* | *103* | | | *80.0-120* | | *10/03/2017 17:59* | WG1025567 |
| *(S) Dibromofluoromethane* | *102* | | | *76.0-123* | | *10/03/2017 17:59* | WG1025567 |
| *(S) 4-Bromofluorobenzene* | *89.0* | | | *80.0-120* | | *10/03/2017 17:59* | WG1025567 |

JC 10/18/17